Lab Manual Visual Basic 6.0

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What is Visual Basic ?

VISUAL BASIC is a high level programming language evolved from the earlier DOS version called BASIC. BASIC means Beginners' All-purpose Symbolic Instruction Code. It is a very easy programming language to learn. The codes look a lot like English Language. Different software companies produced different version of BASIC, such as Microsoft QBASIC, QUICKBASIC, GWBASIC, IBM BASICA and so on. However, it seems people only use Microsoft Visual Basic today, as it is a well developed programming language and supporting resources are available everywhere.

With Visual Basic, you can program practically everything depending on your objective. For example, you can program educational software to teach science, mathematics, language, history, geography and so on. You can also program financial and accounting software to make you a more efficient accountant or financial controller. For those of you who like games, you can program that as well. Indeed, there is no limit to what you can program! There are many such program in this tutorial, so you must spend more time on the tutorial in order to benefit the most.

VISUAL BASIC is a VISUAL and events driven Programming Language. These are the main divergence from the old BASIC. In BASIC, programming is done in a text-only environment and the program is executed sequentially. In VISUAL BASIC, programming is done in a graphical environment. Because users may click on a certain object randomly, so each object has to be programmed independently to be able to response to those actions (events). Therefore, a VISUAL BASIC Program is made up of many subprograms, each has its own program codes, and each can be executed independently and at the same time each can be linked together in one way or another.

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- Understanding the tool bar
- Introducing Source code
- Command Button properties
- Explanations of global modules
- Opening an existing Visual Basic project.
- **u** Explore the forms and the source code behind the an existing project in design mode
- Recognise and understand the function of the main component of the Visual Basic environment eg. toolbar's, toolboxes, project window, properties window and most importantly the source code window.
- Saving your project to a file.
- **4** Button Properties.

The Development Environment

Learning the ins and outs of the Development Environment before you learn visual basic is somewhat like learning for a test you must know where all the functions belong and what their purpose is. First we will start with labelling the development environment.



The above diagram shows the development environment with all the important points labelled. Many of Visual basic functions work similar to Microsoft word eg the **Tool Bar** and the tool box is similar to other products on the market which work off a single click then drag the width of the object required. The **Tool Box** contains the control you placed on the form window. All of the controls that appear on the **Tool Box** controls on the above picture never runs out of controls as soon as you place one on the form another awaits you on the **Tool Box** ready to be placed as needed.

The project explorer window

The Project explorer window gives you a tree-structured view of all the files inserted into the application. You can expand these and collapse branches of the views to get more or less detail (**Project explorer**). The project explorer window displays forms, modules or other separators which are supported by the visual basic like class'es and Advanced Modules. If you want to select a form on its own simply double click on the project explorer window for a more detailed look. And it will display it where the **Default form** is located.

Properties Window

Properties - Form1 X		Properties - Form1		
Form1 Form			Form1 Form	-
Alphabetic Categorized			Alphabetic Categorized	
	Appearance		Appearance	1 - 3D
	Appearance	1 - 3D	AutoRedraw	False
	BackColor	8H800000C	BackColor	8H800000F{
	BorderStyle	2 - Sizable	BorderStyle	2 - Sizable
	Caption	Form1	Caption	Form1
J	FillColor	8H000000C	ClipControls	True 🗾

Some programmers prefer the Categorisized view of the properties window. By defaulting, the properties window displays its properties alphabetically (with the exception of the name value) when you click on the categorized button the window changes to left picture.

The Default Layout

When we start Visual Basic, we are provided with a VB project. A VB project is a collection of the following modules and files.

- The global module(that contains declaration and procedures)
- The form module(that contains the graphic elements of the VB application along with the instruction)
- The general module (that generally contains general-purpose instructions not pertaining to anything graphic on-screen)
- The class module(that contains the defining characteristics of a class, including its properties and methods)
- The resource files(that allows you to collect all of the texts and bitmaps for an application in one place)

On start up, Visual Basic will displays the following windows :

- The Blank Form window
- The **Project** window
- The **Properties** window

It also includes a **Toolbox** that consists of all the controls essential for developing a VB Application. Controls are tools such as boxes, buttons, labels and other objects draw on a form to get **input** or **display output**. They also add visual appeal.

MYcsvtu Notes Understanding the tool box.



You may have noticed that when you click on different controls the **Properties Window** changes slightly this is due to different controls having different functions. Therefore more options are needed for example if you had a picture then you want to show an image. But if you wanted to open a internet connection you would have to fill in the remote host and other such settings. When you use the command () you will find that a new set of properties come up the following will provide a description and a property.

Opening an existing Visual Basic project.

Microsoft have included some freebies with visual basic to show its capabilities and functions. Dismantling or modifying these sample projects is a good way to understand what is happening at runtime. These files can be located at your default directory **/SAMPLES/**

To Open these projects choose 'Open Project' from the 'File' menu. Then Double click on the samples folder to open the directory then Double click on any project to load it.

Opening a new visual basic file & Inserting Source code.

From looking at the examples it time to make your own application. Choose 'New Project' from the 'File' menu. Use the blank form1 to design a simple interface for an estate agents database, have some textboxes for names and other details. Insert some controls and make it look professional. Textboxes can be used to store there name and other details, make sure you put a picture box in for a picture of the house.

Now insert the following source code for your application.

Private Sub Form_Load() Picture1.Picture = LoadPicture("C:\Program Files\VB\Graphics\Icons\Misc\MISC42.ICO") End Sub

Running and viewing the project in detail.

Once an application is loaded it can be run by click on the *licon* from the toolbar, to pause press *liand*

to terminate use

Once a project is loaded, the name of the form(s) that it contains is displayed in the project window. To view a form in design mode, select the form required by clicking with the mouse to highlight its name, then clicking on the view form button.



In this example the project has been loaded and the maillist.frm has been selected for viewing. This Ms Mail example project useds 6 forms and 1 modules.

In Design mode, when the form is viewed, the code attached to any screen object may be inspected by double clicking on that object. The screen shots below show the interface of the Ms Mail example

(.../samples/Comtool/VBMail/MaiLLST.FRM) to view the code for this form select from the project window item.

Private Sub SetupOptionForm(BasePic As Control)

BasePic.Top = 0 BasePic.Left = 0 BasePic.Visible = True BasePic.enabled = True OKBt.Top = BasePic.Height + 120 Me.width = BasePic.Width + 120 Me.Heigh = OkBt.Top + OkBt.Height + 495

End Sub

Making your first *.exe!?

To make an excutable from a project choose 'MakeMake project.exe from the 'File' menu. Then click once on the Make project.exe choose a default location to store your executable, you can also change some advanced options by clicking on the **Options.** tag before saving your exe

Version Number	Application		
Major: Minor: <u>R</u> evision:	<u>T</u> itle: Project1 Ic <u>o</u> n: Form1		
Version Information Type: <u>V</u> alue: Company Name			
Command Line Arguments:			
Conditional Compilation Arguments:			

The above image will be displayed in the comment's value type some comments company name name etc... The Title tag represents the caption you will see if you press Control + Alt + Del. And the icon is the icon that will be available on the execute icon. As you can see it is quite simple to understand. All the comments, data and name appear when you click on the compiled (execute) exe and click properties.

Saving your visual basic project.

Save your work to disk. Use the Windows Explorer or any desktop windows to check that all files have been saved. There should be one Visual Basic Project (.VBP) file and separate Form (.FRM) and Module (.BAS) files for each form and module used in the current project.

Types of Visual Basic Data

Numeric Data

Numeric data are data that consist of numbers, which can be computed mathematically with various standard operators such as add, minus, multiply, divide and so on. In Visual Basic, numeric data are divided into 7 types, they are summarized in Table 1.1

Non-numeric Data Types

Nonnumeric data types are data that cannot be manipulated mathematically using standard arithmetic operators.

They are summarized in Table1.2

Table 1.1: Numeric Data Types			
Type	Storage	Range of Values	
Byte	1 byte	0 to 255	
Integer	2 bytes	-32,768 to 32,767	
Long	4 bytes	-2,147,483,648 to 2,147,483,648	
Single	4 bytes	-3.402823E+38 to -1.401298E-45 for negative values	

		1.401298E-45 to 3.402823E+38 for positive values.
		-1.79769313486232e+308 to -
D 11	0.1	4.94065645841247E-324 for negative values
Double	8 bytes	4.94065645841247E-324 to
		1.79769313486232e+308 for positive
		values.
Comment	0 1	-922,337,203,685,477.5808 to
Currency	8 Dytes	922,337,203,685,477.5807
		+/-
		79,228,162,514,264,337,593,543,950,335
Decimal	12 bytes	if no decimal is use
		+/- 7.9228162514264337593543950335
		(28 decimal places).

Table 1.2: Nonnumeric Data Types

Data Type	Storage	Range
String(fixed length)	Length of string	1 to 65,400 characters
String(variable length)	Length + 10 bytes	0 to 2 billion characters
Date	8 bytes	January 1, 100 to December 31, 9999
Boolean	2 bytes	True or False
Object	4 bytes	Any embedded object
Variant(numeric)	16 bytes	Any value as large as Double
Variant(text)	Length+22 bytes	Same as variable-length string

Managing Variables

Variables are like mail boxes in the post office. The contents of the variables changes every now and then, just like the mail boxes. In term of VB, variables are areas allocated by the computer memory to hold data. Like the mail boxes, each variable must be given a name. To name a variable in Visual Basic, you have to follow a set of rules.

Variable Names

The following are the rules when naming the variables in Visual Basic

- It must be less than 255 characters
- No spacing is allowed
- It must not begin with a number
- Period is not permitted

Declaring Variables

In Visual Basic, one needs to declare the variables before using them by assigning names and data types. They are normally declared in the general section of the codes' windows using the **Dim** statement. The format is as follows:

Dim variableNmae as DataType

Example

Dim password As String Dim yourName As String Dim firstnum As Integer Dim secondnum As Integer Dim total As Integer Dim doDate As Date

You may also combine them in one line, separating each variable with a comma, as follows:

Operators in Visual Basic

In order to compute inputs from users and to generate results, we need to use various mathematical operators. In Visual Basic, except for + and -, the symbols for the operators are different from normal mathematical operators, as shown in Table 1.2.

Operator	MathematicalFunction	Example
^	Exponential	2^4=16
*	Multiplication	4*3=12, (5*6))2=60
/	Division	12/4=3
Mod	Modulus(return the remainder from an integer division)	15 Mod 4=3 255 mod 10=5
١	Integer Division(discards the decimal places)	19\4=4
+ or &	String concatenation	"Visual"&"Basic"="Visual Basic"

Table 1.2	Arithmetic	Operators
-----------	------------	------------------

Conditional Operators

To control the VB program flow, we can use various conditional operators. Basically, they resemble mathematical operators. Conditional operators are very powerful tools, they let the VB program compare data values and then decide what action to take, whether to execute a program or terminate the program and etc.

Conditional Operators

Operator	Meaning
=	Equal to
>	More than
<	Less Than
>=	More than and equal
<=	Less than and equal
\Leftrightarrow	Not Equal to

Logical Operators

In addition to conditional operators, there are a few logical operators which offer added power to the VB programs.

Operator	Meaning
And	Both sides must be true
or	One side or other must be true
Xor	One side or other must be true but not both
Not	Negates truth

Using If.....Then.....Else Statements with Operators

To effectively control the VB program flow, we shall use If...Then...Else statement together with the conditional operators and logical operators. The general format for the if...then...else statement is MYcsvtu Notes If conditions Then VB expressions Else VB expressions End If

Example:

Private Sub OK_Click()

firstnum = Val(usernum1.Text) secondnum = Val(usernum2.Text) total = Val(sum.Text) If total = firstnum + secondnum And Val(sum.Text) <> 0 Then correct.Visible = True wrong.Visible = False Else correct.Visible = False wrong.Visible = True End If

End Sub

Select Case

If you have a lot of conditional statements, using If..Then..Else could be very messy. For multiple conditional statements, it is better to use Select Case

The format is :

.

Select Case expression

Case value1 Block of one or more VB statements Case value2 Block of one or more VB Statements Case value3 Block of one or more VB statements Case value4

Case Else Block of one or more VB Statements MYcsvtu Notes End Select

Example

'Examination Grades

Dim grade As String

Private Sub Compute_Click()

grade=txtgrade.Text

Select Case grade

Case "A" result.Caption="High Distinction" Case "A-" result.Caption="Distinction" Case "B" result.Caption="Credit" Case "C" result.Caption="Pass" Case Else result.Caption="Fail" End Select

Looping

Visual Basic allows a procedure to be repeated as many times as long as the processor could support. This is generally called looping .

Do Loop

The format are
a) Do While condition

Block of one or more VB statements
Loop

b) Do

Block of one or more VB statements
Loop While condition
c) Do Until condition

Block of one or more VB statements
Loop

d) Do

Block of one or more VB statements
Loop

d) Do

Block of one or more VB statements
Loop

Exiting the Loop

Sometime we need exit to exit a loop prematurely because of a certain condition is fulfilled. The syntax to use is known as Exit Do. Lets examine the following example

For....Next Loop

The format is:

For counter=startNumber to endNumber (Step increment) One or more VB statements Next

Example For counter=1 to 10 display.Text=counter Next

VB Functions

MsgBox () Function

The objective of MsgBox is to produce a pop-up message box and prompt the user to click on a command button before he /she can continues. This message box format is as follows:

yourMsg=MsgBox(Prompt, Style Value, Title)

The first argument, Prompt, will display the message in the message box. The Style Value will determine what type of command buttons appear on the message box, please refer Table 10.1 for types of command button displayed. The Title argument will display the title of the message board.

Style Values			
Style Value	Named Constant	Buttons Displayed	
0	vbOkOnly	Ok button	
1	vbOkCancel	Ok and Cancel buttons	
2	vbAbortRetryIgnore	Abort, Retry and Ignore buttons.	
3	vbYesNoCancel	Yes, No and Cancel buttons	
4	vbYesNo	Yes and No buttons	
5	vbRetryCancel	Retry and Cancel buttons	

We can use named constant in place of integers for the second argument to make the programs more readable. In fact, VB6 will automatically shows up a list of names constant where you can select one of them.

Example: yourMsg=MsgBox("Click OK to Proceed", 1, "Startup Menu")

and yourMsg=Msg("Click OK to Proceed". vbOkCancel, "Startup Menu")

MYcsvtu Notes are the same.

yourMsg is a variable that holds values that are returned by the MsgBox () function. The values are determined by the type of buttons being clicked by the users. It has to be declared as Integer data type in the procedure or in the general declaration section. Table 10.2 shows the values, the corresponding named constant and buttons.

Value	Named Constant	Button Clicked
1	vbOk	Ok button
2	vbCancel	Cancel button
3	vbAbort	Abort button
4	vbRetry	Retry button
5	vbIgnore	Ignore button
6	vbYes	Yes button
7	vbNo	No button

Return Values and Command Buttons

Value	Named Constant	Icon
16	vbCritical	8
32	vbQuestion	?
48	vbExclamation	
64	vbInformation	٩

Example

Private Sub test2_Click() Dim testMsg2 As Integer testMsg2 = MsgBox("Click to Test", vbYesNoCancel + vbExclamation, "Test Message") If testMsg2 = 6 Then display2.Caption = "Testing successful" ElseIf testMsg2 = 7 Then display2.Caption = "Are you sure?" Else display2.Caption = "Testing fail" End If

End Sub



The InputBox() Function

An InputBox() function will display a message box where the user can enter a value or a message in the form of text. The format is

myMessage=InputBox(Prompt, Title, default_text, x-position, y-position)

myMessage is a variant data type but typically it is declared as string, which accept the message input by the users. The arguments are explained as follows:

- Prompt The message displayed normally as a question asked.
- Title The title of the Input Box.
- default-text The default text that appears in the input field where users can use it as his intended input or he may change to the message he wish to key in.
- x-position and y-position the position or the coordinate of the input box.

Example

i. The Interface

Figure

🛋 Form1	
Your message	
OK.	
	<u>anone</u>

ii. The procedure for the OK button

```
Private Sub OK_Click()
Dim userMsg As String
userMsg = InputBox("What is your message?", "Message Entry Form", "Enter your messge here", 500,
700)
If userMsg <> "" Then
message.Caption = userMsg
Else
message.Caption = "No Message"
End If
```

End Sub

When a user click the OK button, the input box as shown in Figure 10.5 will appear. After user entering the message and click OK, the message will be displayed on the caption, if he click Cancel, "No message" will be displayed.

Message Entry Form	×
What is your message?	ОК
	Cancel
Enter your messge here	

Creating Your Own Functions

The general format of a function is as follows:

Public Function functionName (Arg As dataType,.....) As dataType

Private Function functionName (Arg As dataType,.....) As dataType

* Public indicates that the function is applicable to the whole program and Private indicates that the function is only applicable to a certain module or procedure.

Example

In this example, a user can calculate future value of a certain amount of money he has today based on the interest rate and the number of years from now supposing he will invest this amount of money somewhere .The calculation is based on the compound interest rate.



Public Function FV(PV As Variant, i As Variant, n As Variant) As Variant 'Formula to calculate Future Value(FV) 'PV denotes Present Value $FV = PV * (1 + i / 100) ^n$

End Function

Private Sub compute_Click() 'This procedure will calculate Future Value Dim FutureVal As Variant Dim PresentVal As Variant Dim interest As Variant Dim period As Variant PresentVal = PV.Text interest = rate.Text period = years.Text

FutureVal = FV(PresentVal, interest, period) MsgBox ("The Future Value is " & FutureVal) End Sub

Handling some of the common controls

The Text Box

The text box is the standard control that is used to receive input from the user as well as to display the output. It can handle string (text) and numeric data but not images or pictures. String in a text box can be converted to a numeric data by using the function Val(text). The following example illustrates a simple program that processes the inputs from the user.

In this program, two text boxes are inserted into the form together with a few labels. The two text boxes are used to accept inputs from the user and one of the labels will be used to display the sum of two numbers that are entered into the two text boxes. Besides, a command button is also programmed to calculate the sum of the two numbers using the plus operator. The program use creates a variable sum to accept the summation of values from text box 1 and text box 2. The procedure to calculate and to display the output on the label is shown below. The output is shown in Figure 1

Private Sub Command1_Click()

'To add the values in text box 1 and text box 2

MYcsvtu Notes Sum = Val(Text1.Text) + Val(Text2.Text)

'To display the answer on label 1

Label1.Caption = Sum

End Sub



i Form1		
Number 1	100	
Number 2	500	
Sum	600	Calculate

The Label

The label is a very useful control for Visual Basic, as it is not only used to provide instructions and guides to the users, it can also be used to display outputs. One of its most important properties is Caption. Using the syntax label.Caption, it can display text and numeric data . You can change its caption in the properties window and also at runtime. Please refer to Example 3.1 and Figure 3.1 for the usage of label.

The Command Button

The command button is a very important control as it is used to execute commands. It displays an illusion that the button is pressed when the user click on it. The most common event associated with the command button is the Click event, and the syntax for the procedure is

Private Sub Command1_Click ()

Statements

The Picture Box

The Picture Box is one of the controls that used to handle graphics. You can load a picture at design phase by clicking on the picture item in the properties window and select the picture from the selected folder. You can also load the picture at runtime using the **LoadPicture** method. For example, the statement will load the picture grape.gif into the picture box.

Picture1.Picture=LoadPicture ("C:\VB program\Images\grape.gif")

The Image Box

The Image Box is another control that handles images and pictures. It functions almost identically to the picture box. However, there is one major difference, the image in an Image Box is stretchable, which means it can be resized. This feature is not available in the Picture Box. Similar to the Picture Box, it can also use the LoadPicture method to load the picture. For example, the statement loads the picture grape.gif into the image box.

Image1.Picture=LoadPicture ("C:\VB program\Images\grape.gif")

The List Box

The function of the List Box is to present a list of items where the user can click and select the items from the list. In order to add items to the list, we can use the **AddItem method**. For example, if you wish to add a number of items to list box 1, you can key in the following statements

Example

```
Private Sub Form_Load ()
```

List1.AddItem "Lesson1" List1.AddItem "Lesson2" List1.AddItem "Lesson3" List1.AddItem "Lesson4"

End Sub

The items in the list box can be identified by the **ListIndex** property, the value of the ListIndex for the first item is 0, the second item has a ListIndex 1, and the second item has a ListIndex 2 and so on

MYcsvtu Notes The Combo Box

The function of the Combo Box is also to present a list of items where the user can click and select the items from the list. However, the user needs to click on the small arrowhead on the right of the combo box to see the items which are presented in a drop-down list. In order to add items to the list, you can also use the **AddItem method**. For example, if you wish to add a number of items to Combo box 1, you can key in the following statements

Example

Private Sub Form_Load ()

Combo1.AddItem "Item1" Combo1.AddItem "Item2" Combo1.AddItem "Item3" Combo1.AddItem "Item4"

End Sub

The Check Box

Option bars are used quite often in the windows environment as they can only have two outputs 0 and 1 these get used to process the form. In this example it will be used to change the some text from normal to bold or to italic.

i	🐃 Check Box Example 📃 🗖 🗙									
-	Some sample te	ext								
	☐ <u>B</u> old ☐ <u>I</u> talic	Select the Bold or Italic check boxes to see their effect on the above text.								
•		Close								

Private Sub chkBold_Click() If chkBold.Value = 1 Then ' If checked. txtDisplay.FontBold = True MYcsvtu Notes Else ' If not checked. txtDisplay.FontBold = False End If End Sub

Private Sub chkItalic_Click() If chkItalic.Value = 1 Then ' If checked. txtDisplay.FontItalic = True Else ' If not checked. txtDisplay.FontItalic = False End If End Sub

This example can be found at "smaples/PGuide/controls/Controls.vbp" or downloaded free from the download page. The checkboxes can be turned on at runtime by simply typing

name.value = $1 \cdot 1$ On , 0 off

Note: If you create the frame first and then add the option buttons by single clicking on the toolbox and dragging the cross hair cursor on the frame to create the controls, they will be attached to the frame and will move with it if you decide to re-position the frame. Notice, however, that if you create the frame first and double click the screen controls, then drag them from the centre of the form on to the frame, they will not be attached to it and will be left behind when you try to move the frame. Try this out.

Notice that when you run your application the same icon is loaded first (probably the clipboard, if you created that option button first). You can alter the option that has the focus first, by selecting one of the other option buttons and setting its property tabindex to 1.

The Check Box control lets the user to select or unselect an option. When the Check Box is checked, its value is set to 1 and when it is unchecked, the value is set to 0. You can include the statements Check1.Value=1 to mark the Check Box and Check1.Value=0 unmark the Check Box, and use them to initiate certain actions. For example, the program will change the background color of the form to red when the check box is unchecked and it will change to blue when the check box is checked. You will learn about the conditional statement If....Then....Elesif in later lesson. VbRed and vbBlue are color constants and BackColor is the background color property of the form.

The Option Button

The Option Box control also lets the user selects one of the choices. However, two or more Option Boxes must work together because as one of the Option Boxes is selected, the other Option Boxes will be unselected. In fact, only one Option Box can be selected at one time. When an option box is selected, its value is set to "True" and when it is unselected; its value is set to "False". In the following example, the shape control is placed in the form together with six Option Boxes. When the user clicks on different option

boxes, different shapes will appear. The values of the shape control are 0, 1, and 2,3,4,5 which will make it appear as a rectangle, a square, an oval shape, a rounded rectangle and a rounded square respectively.

The Drive List Box

The Drive ListBox is used to display a list of drives available in your computer. When you place this control into the form and run the program, you will be able to select different drives from your computer as shown in Figure 2

Figure 2 The Drive List Box

_
-

The Directory List Box

The Directory List Box is used to display the list of directories or folders in a selected drive. When you place this control into the form and run the program, you will be able to select different directories from a selected drive in your computer as shown in Figure 3

Figure 3 The Directory List Box

🖻 Form1	
D:\ Program Files Microsoft Visual Studio VB98 New Folder Setup Template	

What an event is

The 'look' of a Visual Basic application is determined by what controls are used, but the 'feel' is determined by the events. An event is something which can happen to a control. For example, a user can

click on a button, change a text box, or resize a form. As explained in Creating a Visual Basic Application, writing a program is made up of three events: 1) select suitable controls, 2) set the properties, and 3) write the code. It is at the code writing stage when it becomes important to choose appropriate events for each

control. To do this double click on the control the event will be used for, or click on the *licon* in the project window (usually top right of screen). A code window should now be displayed similar to the one shown below.

Fo	orm	•	Load	•	
	Private Sub Form Load()		MouseDown		E
	Flivace Sub Form_hoad()		MouseMove		È
			MouseUp		
	End Sub		OLECompleteDrag		
			OLEDragDrop		
			OLEDragOver		
			OLEGiveFeedback		ł
			OLESetData		L
			OLEStartDrag		L
			Paint		L
			QueryUnload		1
			Resize	-	1

1) The left hand dropdown box provides a list of all controls used by the current form, the form itself, and a special section called General Declarations. The corresponding dropdown box on the right displays a list of all events applicable to the current control (as specified by the left hand dropdown box). Events displayed in bold signify that code has already been written for them, unbold events are unused. To demonstrate that different events can play a significant role in determining the feel of an application, a small example program will be written to add two numbers together and display the answer. The first solution to this problem will use the click event of a command button, while the second will the change event of two text boxes.

Click Event

Before any events can be coded it is necessary to design the interface from suitable controls. As shown in the screen shot below use: 2 text boxes to enter the numbers, a label for the '+' sign, a command button for the '=' sign, and another label for the answer.

	Ē	1.	C	lio	cl	¢	E	Y	e	nt																_		С		>	<
5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	·
:					1	•	-	ſ					:			=															• • •
																															.

Making the click event is very simple just select the button with the mouse and double click visual basic will generate

Command1 Click
Private Sub Command1_Click()
' The code here is
' within the click event
End Sub

You can see on the top right there is a 'click' dropdown list this is known as a event handler.

Writing your own even

In the first example the user has to enter two numbers and then click on the equals button to produce an answer. However, the program can be changed so that the answer will be calculated every time either of the two numbers are changed without requiring an equals button.

To do this first remove the equals command button and replace it with a label with the caption set to ='. Now, bring up a code window and copy to the Windows clipboard the line **lblAnswer** = **Str**\$(**Val(txtNumber1.Text)** + **Val(txtNumber2.Text)**). Using the left hand dropdown box select the first text box and then select the **Change** event from the right dropdown box. Then paste the code from the clipboard into the empty subroutine. Select the second text box and do the same. The same line is required twice because the two click events belong to two separate controls. The final code should look like:

```
Private Sub txtNumber1_Change()
label2.Caption = Str$(Val(text1.Text) + Val(text.Text))
End Sub
```

Private Sub txtNumber2_Change() label2.Caption = Str\$(Val(text1.Text) + Val(text2.Text)) End Sub

Run the program again, enter the two numbers and observe what happens. Each time a digit changes the answer is recalculated.

Note: There may be times when recalculating more advanced problems takes too long on each change and so requiring the user to enter all the data first and then click on an answer button might more appropriate.

Using the event GotFocus event

So far only one event has been used per control, however this does not have to be the case! Add a StatusBar

control to the bottom of the form, bring up the code window using \square , select the first text box (txtNumber1) from the left hand dropdown box, and then select the **GotFocus** event from the right hand dropdown box. Now some basic instructions can be written in the status bar so that when the cursor is in the text box (the text box has focus) the status bar reads "Enter the first number". After completing this change to the second text box and using the same GotFocus event change the statusbar text to "Enter a second number". The code to set the status bar can be seen below.

Msgboxes

Message boxes are used when you want to ask the user a question or display an error message(s) and advise the user. There are six types of message boxes here are their functions and what they do. Here is the listing of all the possible msgbox events

MYcsvtu Notes **The Buttons displayed in a message here**

Button Layout	Value	Short Description
vbOKonly	0	Displays the OK button.
vbOKCancel	1	Displays the ok and cancel button.
vbAbortRetryIgnore	2	Displays the Abort , Retry , Ignore
vbYesNoCancel	3	Displays Yes, No and Cancel button
vbYesNo	4	Displays the Yes / No button
vbRetryCancel	5	Displays the retry and Cancel buttons.

The Icons displayed in the message box are here

Icon on message	Value	Short Description
vbCritical	16	Displays critical message icon
vbQuestion	32	Displays question icon
vbExclamation	48	Displays exclamation icon
vbInformation	64	Displays information icon

The Default button displayed in a message form

Default Button	Value	Short Description
vbDefaultButton1	0	Button 1 is default
vbDefaultButton2	256	Button 2 is default
vbDefaultButton3	512	Button 3 is default

Msgbox Return Value

Return Value	Value	Short Description
vbOk	1	The User Clicked OK
vbCancel	2	The User Clicked Cancel
vbAbort	3	The User Clicked Abort
vbRetry	4	The User Clicked Retry
vbIgnore	5	The User Clicked Ignore
VbYes	6	The User Clicked Yes
VbNo	7	The User Clicked No

Source code 1

Private Sub Form_Load()

MsgBox "The Device was not Found!", 48, "Header"

End Sub

MYcsvtu Notes Source code 2

Private Sub Form_Load()

MsgBox "The Device was not found!", vbExclamation, "Header"

End Sub

You should get the picture shown below whatever source code you used.

Header	×
⚠	The Device was not Found!
	()

This is a basic msgbox which in this case has not been processed in any way. The following Source code displays a msgbox that ask you for specific text. For example lets make a password program out of this message box.

WORKING WITH FILES

Opening & Retriving information from files

When applications are loaded they normal get some setting out of the registry or file this section will show you how to retrieve 1 string out of a file.

Private Sub Form_Load()

Dim F As Integer, password As String F = FreeFile Open App.Path & "\password.txt" For Input As F Input #F, password Close #F

End Sub

As you can see from this source code the password is previously declared as a string. After this is done be sure to close the file otherwise next time you want to store or read the file the computer will think it is being used by another application and windows will not let you do anything with it. So as you can see it is **Very Important** to close the file

MYcsvtu Notes Storing Information to a file

FTP programs often store information to a file such as a username and password or host information in the same way. This following example will put some information into the file.

Private Sub Form_Load()

Dim F As Integer, pass As String F = FreeFile save = txtNew Open App.Path & "\password.txt" For Output As F Write #F, Text1.text Close #F

End Sub

Although this is a bit obvious I think I should include it just incase I think differently to other people.

Printing text to the printer.

This is rather easy to do and it gets used in notepad etc...

Private Sub Form_Load()

Printer.Print " The printer will print this text " Printer.Print "" Printer.Print " It will leave a line here" Printer.Print " It should add the contence of text1.text here : " & Text1.Text & " As you can see it works" Printer.Print "" Printer.EndDoc "This will tell the printer it has finished.

End Sub

Everything that apears in position (A) will get printed by the default printer printer.print " A ". The printer enddoc is used to tell the printer the job is finished if this is not added the printer can not estimate how near it will be until it has finish and when it has finished it will think it has 'nt so be sure to include this to prevent confusion.

Control Arrays

A control array is a list of controls with the same name. Therefore, instead of using five command buttons with separate five names, you can place a command button control array on the form, and that control array holds five command buttons. The control array can have a single name, and you will distinguish the control from each other with a subscript. One of the best reasons to use control array from that first control, all the elements in the control array take on the same property values, You then can change those properties that need to be changed without having to set every property for each control individually. Control arrays have a lot in common with data arrays. A control array has one array, and you distinguish all the array's controls

from each other with the zero-based subscript. (The index property holds the controls subscript number). All of the control elements must be the same data type. As soon as you place a control on a form that has the same name as an existing control, Visual Basic makes sure you that you want to begin a control array by issuing the warning message to show that the control is already in use. This is used as a built in safety so that you do not over right an existing control by putting it some where else on the same form. If you answer the warning box with a no button, Visual Basic uses a default control name for the placed control.

Picture Not available at the moment!

All event procedures that use control from a control array require a special argument value passed to them that the determines which control is being worked on. For example if your application contains a single control command button named cmdtotal the click () event begins and ends as follows

Private sub cmdtotal_click()

End Sub

If however you create a control array named the same name as before (cmdtotal) it will end up like this

The procedure uses the index argument as the control index number (the subscript) that the user clicked, Therefore if you want to change the clicked command buttons caption property inside the cmdtotal_click () the procedures you would need are as follows Cmdtoal(index).caption = "A caption name" The index value holds the command button's index the user click to generate the event procedures so you will always respond to the proper control clicked if you use Index after the control array name.

Brief introduction to the usages of Access data bases

What I think is the most compelling thing about Visual Basic is it's easy way of accessing and modifying databases. This is what I think you should learn next; you will find many applications for this knowledge. I almost never make a program without using a database for data storage.

There are many ways to work with databases in Visual Basic, and I would think you have at least glanced at the Data control. I will not even mention the Data control further in this text, since it is so easy to use and too limited to be interesting for a professional developer. (Ok, there are some exceptions to this.)

What I will teach you to use in this text is DAO (Data Access Objects). You will get familiar with opening a database and retrieving/adding/deleting/updating records from tables. I will only use an Access Database (*.mdb) in my examples, since this is the most used DBMS (DataBase Management System) for smaller applications made in Visual Basic. We will at the end of this lesson have made a simple, yet functional, phone book application.

This text requires some knowledge of the Visual Basic programming language and you should be familiar with the Visual Basic IDE (Integrated Development Environment).

Database Object

The first thing you must do in your application is to open a database where your tables are stored. You need to declare a variable to hold your database in order to do this. This is done with:

Dim dbMyDB As Database

This gives you a variable/object that can hold a reference to your database. To open a simple Access database named "MyDatabase.mdb", do this:

MYcsvtu Notes Set dbMyDB = OpenDatabase("MyDatabase.mdb")

You should really specify the complete path to the db, but if your current directory is the directory where the database is situated, this will work.

So, now you have opened a database. This won't give you any data. What you need to do is open a table in the database. You're not limited to open a single table; sometimes you have two or more tables that are related to each other and linked together with foreign keys, and there are ways to handle this to. But in this "Visual Basic - Database Primer" I will only show you how to open a single table.

RecordSet Object

Visual Basic uses an object called RecordSet to hold your table. To declare such an object and to open the table, do this:

Dim rsMyRS As RecordSet

Set rsMyRS = dbMyDB.OpenRecordSet("MyTable", dbOpenDynaset)

What happened there? Well, I declared a RecordSet object and used the Database object's OpenRecordSet method to open a table of type Dynaset. You can open a RecordSet in several modes. VB's online help file explains the different modes and what they are for. The Dynaset mode is the mode I use mostly. It gives you a RecordSet that you can add, delete and modify records in.

Accessing records

Now that we have opened a table (referred to as RecordSet from now on) we want to access the records in it. The RecordSet object allows us to move in it by using the methods MoveFirst, MoveNext, MovePrevious, MoveLast (among others). I will use some of these to fill up a list box with the records of our RecordSet.

To get this example to work, make a database (with Access) called "MyDatabase.mdb" with the table "MyTable" in it. This table should have the fields "ID" of type "Counter" that you set to be the primary key, the field "Name" of type Text and a field "P hone" of type Text. Add some records to it. Put a list box on a form and call it "IstRecords".

Dim dbMyDB As Database Dim rsMyRS As RecordSet

Private Sub Form_Load()

Set dbMyDB = OpenDatabase("MyDatabase.mdb") Set rsMyRS = dbMyDB.OpenRecordSet("MyTable", dbOpenDynaset)

```
If Not rsMyRS.EOF Then rsMyRS.MoveFirst
Do While Not rsMyRS.EOF
IstRecords.AddItem rsMyRS!Name
IstRecords.ItemData(IstRecords.NewIndex) = rsMyRS!ID
rsMyRS.MoveNext
```

Loop

End Sub

This will make the list box fill up with your records when the form loads. I have introduced some new concepts with this example. We have all ready covered the first part where we open the table. The line that

says If Not rsMyRS.EOF Then rsMyRS.M oveFirst tells the program to move to the first record in case there are any records at all. The EOF is a Boolean property that is true if the current record is the last. It is also true if there are no records in the RecordSet.

Then we make the program add the "Name" field of all records to the list box by adding the current records field "Name" and moving to the next record. You ask for a field of a RecordSet by putting a ! between the name of the RecordSet object and the name of the field. The while loop checks to see if there are more records to add.

Searching the RecordSet

You might have wondered why I put the value of the field "ID" in the list box's ItemData property. I did this so that we would know the primary key for all the records in order to search for a record.

Put a text box somewhere on the form and call it "txtPhone". Then copy the following code to the project.

Private Sub lstRecords_Click() rsMyRS.FindFirst "ID=" & Str(lstRecords.ItemData(lstRecords.ListIndex)) txtPhone.Text = rsMyRS!Phone End Sub

This will display the phone number of the selected person when clicking in the list box. It uses the FindFirst method of the RecordSet object. This takes a string parameter that is like what is after WHERE in a SQL expression. You state the field that you want to search in (here "ID"), then the evaluation criteria (here "=") and last the value to search for (here the ItemData of the selected item in the list box).

So what we did was to search for the record with the "ID" field value that was the same as the ItemData property of the selected item in the list box. Then we show the value of the "Phone" field in the text box.

Updating the Database

You will probably want to be able to update some value of some field when doing database programming. This is done with Edit and Update. We will try to change the value of the "Phone" field by editing the text in the text box and clicking a button.

Put a command button on the form and name it "cmdUpdate". Then copy the following code to the project.

Private Sub cmdUpdate_Click()

rsMyRS.Edit rsMyRS!Phone = txtPhone.Text rsMyRS.Update

End Sub

Could it be that simple? Yes. This changes the phonenumber of our selected person. Or to put it technically: This changes the value of the "Phone" field of our current record. Imagine the current record being a set of boxes, with a field in each box. The Edit method takes the lid off all of the boxes and Update puts them back on. When we write rsMyRS!Phone = txtPhone.Text we replace the content of the "Phone" box with the content in the text box.

MYcsvtu Notes Deleting and Adding records

Deleting

Deleting records couldn't be simpler. To delete the current record you just invoke the Delete method of the RecordSet object. We will put this feature in our little project. Make one more command button named "cmdDelete" and the following code will do the work of deleting our currently selected person.

Private Sub cmdDelete_Click()

rsMyRS.Delete lstRecords.RemoveItem lstRecords.ListIndex

End Sub

I won't even bother to explain that in greater detail =). The first statement deletes the record and the second removes the list box entry.

Adding

Adding records is much like updateing, except you use AddNew instead of Edit. Let's add one more command button to our application. Let's call it...errh...let me see...yea! "cmdNew" =). Here is the code that adds a new record.

Private Sub cmdNew_Click()

rsMyRS.AddNew rsMyRS!Name = "A New Person" lstRecords.AddItem rsMyRS!Name lstRecords.ItemData(lstRecords.NewIndex) = rsMyRS!ID rsMyRS!Phone = "Person's Phone Number" rsMyRS.Update

End Sub

I will use the box analogy to explain this. The AddNew method takes a set of new boxes and adds them to our RecordSet. We then put some new values in them and close the lids with Update. As you can see we never stated any value for "ID", but as you remember, this is a field of type "Counter" wich automatically gets a unique value. The code also adds this new record to the list box so that we will be able to change the phone number of this person. I leave it up to you to add the feature of changing the name.

University Syllabus

- Visual Basic an Integrated Development Environment (IDE): An Introduction, Explain new project Window, Project Explorer window, Watch window etc. Design an identity card containing Information regarding students such as Name, Roll Number, Address, Class studying, Date of Birth, Blood Group, Phone No, etc. Add an Exit Button.
- 2) Develop an application to calculate interest .It should accept rate of interest, period for calculation of interest, amount on which interest to be calculated. After clicking compute (principal and interest) should be displayed in separate text box. Add Exit button, proper text box control and labels to be used. Provide 2 options Simple, Compound interest. Provide picture and Radio button control.
- 3) Design a simple Calculator to implement addition, subtraction, multiplication, division, remainder operations of two digits.

- 4) Create a form using check box & option box to give effect for fonts such as bold, italic, underline, Strike Through for the text entered in the Rich Text Box.(add Status bar control).
- 5) Create a box to access Drive List Box, Directory List, File within a directory of your computer.
- 6) Design a form for demonstration of print method (error code, Error massage display).use print control box. Log the status of each massage in a log file.
- 7) Demonstrate the use of Data environment; add tables, and queries, place fields on forms and reports.
- 8) Generate a single table report & two table grouped report outputs.
- 9) Design a program to display regional languages of different states in India. Take many names of states of India in one list box control and other text box control should display their languages. Eg. Maharashtra -> Marathi
- 10) CASE STUDY (Design and develop on of the following three case studies)
 - a. Create a Scientific calculator (add Min 15 functions)
 - b. Develop a program for online examination system, which includes database and record keeping facility.
 - c. Develop a program for Payroll systems, which can handle database as well as can print the pay slips of employees. In this system provide a login window, which will accept the user's name and password. After verifying the user's information, the user should access to the payroll system.
- 11) Create a sample notebook application, which contain menu, rich text box, common dialog box, formatted text, using toolbar and replace text, windows (tile/cascade), status bar and scroll bar.
- 12) Modify practical No 7 to add following buttons: FIND, ADD, DELETE, UPDATE and CANCEL. Give proper code to perform the activity described by the buttons.
- 13) Display the Table data using ADODC. Add: FIND, ADD, DELETE, UPDATE and CANCEL Buttons on the form.
- 14) Display the data form two different tables having common keys using visual data manager. Use flex grid control to display data.
- 15) Use ActiveX control in the form which is created in the previous practical list.

LIST OF EXPERIMENTS

- 1) Write a program in visual basic to design a identity card containing information regarding students such as Name, Roll Number, Address, Class studying, Date of Birth, Blood Group, Phone Number etc .Add a Exit Button.
- 2) Develop an application to calculate interest .It should accept rate of interest, period for calculation of interest, amount on which interest to be calculated. After clicking compute (principal and interest) should be displayed in separate text box. Add Exit button, proper text box control and labels to be used. Provide 2 options – Simple, Compound interest.
- 3) Design a simple Calculator to implement addition, subtraction, division, remainder operations of two digits.
- 4) Create a form using check box & option box to give effect for fonts such as bold, italic, underline for the text entered in the Rich Text Box.
- 5) Design a program to display regional languages of different states in India. Take many names of states of India in one combo box control and other text box control should display their languages. Eg. Maharashtra -> Marathi
- 6) Write a program in visual basic to print Hello on the form & Welcome to the World of Visual Basic in the message box.
- 7) Write a program in visual basic to get three numbers from the user with the help of input box and print the greatest.
- 8) Write a program in visual basic to get the first name & last name from the user & concatenate them & print full name in message box.
- 9) Write a program in visual basic to get one number & calculate the factorial of that number.
- 10) Write a program in visual basic for searching a string in the text box
- 11) Write a program in visual basic to use option buttons on the form.
- 12) Write a program in visual basic to use List box Control.
- 13) Write a program in visual basic to use Combo Box & List Box in the Form.
- 14) Write a program in visual basic to DriveListBox, DirListBox, FileListBox
- 15) Write a program in visual basic for creating a Menu.
MYcsvtu Notes

- 16) Write a program in visual basic for adding pictures in the form, image control & picture Box.
- 17) Write a program in visual basic to connect Access with visual Basic for inserting records using ADODB.
- 18) Write a program in visual basic to connect Access with visual Basic for Searching records using ADODB.
- 19) Write a program in visual basic to connect Access with visual Basic for Updating records using ADODB.
- 20) Write a program in visual basic to connect Access with visual Basic for Deleting records using ADODB.
- 21) Write a program in visual basic to print Form.
- 22) Write a program in visual basic to generate a data report.
- 23) Write a program in visual basic using our own control.
- 24) Write a program in visual basic using Active X control.
- 25) Write a program in visual basic using ADODC control.

MYcsvtu Notes

EXPERIMENT NO. 1

- **AIM :** Write a program in visual basic to design a identity card containing information regarding students such as Name, Roll Number, Address, Class studying, Date of Birth, Blood Group, Phone Number etc. Add a Exit Button.
- **Description :** This program describes about the properties of basic controls used in VB. Like Text Box, Label, Command Button

Solution :

Deepak Bhalla
10
Mig/2/130 Hudco
PHD
28-08-1980
B+
9926844454

Coding:-

Private Sub Command1_Click() End End Sub

Assignments:

Design a Traffic card showing Vehicle number,Licence Number , Expiry, Address, Phone Number & type of vehicle.

AIM : Develop an application to calculate interest .It should accept rate of interest, period for calculation of interest, amount on which interest to be calculated. After clicking compute (principal and interest) should be displayed in separate text box. Add Exit button, proper text box control and labels to be used. Provide 2 options – Simple, Compound interest.

Description :This program describes about how mathematical calculation are performed in VB using properties of Control.

Solution :

Si	mple Interest
Principal	10000
Rate	12
Time	9
Total Amount	20800
	- Simple a Compound

Coding:

Private Sub Command1_Click() End End Sub

```
Private Sub Option1_Click()

If Option1.Value = True Then

Text4.Text = (Val(Text1.Text) * Val(Text2.Text) * Val(Text3.Text)) / 100

End If

End Sub
```

```
Private Sub Option2_Click()

If Option2.Value = True Then

Text4.Text = ((Val(Text1.Text) * Val(Text2.Text) *

Val(Text3.Text)) /(100) + Val(Text1.Text)

End If

End Sub

Assignments:

Covert Faranite into Centigrate
```

AIM : Design a simple Calculator to implement addition, subtraction, division, remainder operations of two digits.

Description : :This Program used to perform basic mathematical operations on controls.

Solution :

Simpl	e Interest
Enter First Number	20
Enter Second Number	30
Answer	50

Coding :

Private Sub Command1_Click() Text3.Text = Val(Text1.Text) - Val(Text2.Text) End Sub
Private Sub Command2_Click() Text3.Text = Val(Text1.Text) * Val(Text2.Text) End Sub
Private Sub Command3_Click() Text3.Text = Val(Text1.Text) + Val(Text2.Text) End Sub
Private Sub Command4_Click() Text3.Text = Val(Text1.Text) Mod Val(Text2.Text) End Sub
Private Sub Command5_Click() Text3.Text = Val(Text1.Text) / Val(Text2.Text) End Sub

Assignments:

Design Scientific Calculator.

AIM : Create a form using check box & option box to give effect for fonts such as bold, italic, underline for the text entered in the Rich Text Box.

Description : This Program intends about the fonts related run time appearance properties instead of design time.

Solution :

My Name is Abhishek Bhalla	
Red	🕫 Bola
Blue	🗆 Italie
Yellow	(** Underlinea

Coding :

```
Private Sub Check1_Click()

If Check1.Value = 1 Then

RichTextBox1.Font.Bold = True

End If

If Check1.Value = 0 Then

RichTextBox1.Font.Bold = False

End If

End Sub
```

```
Private Sub Check2_Click()

If Check2.Value = 1 Then

RichTextBox1.Font.Italic = True

End If

If Check2.Value = 0 Then

RichTextBox1.Font.Italic = False

End If

End Sub
```

MYcsvtu Notes	
Private Sub Check3_Click()	
If Check3.Value $= 1$ Then	
RichTextBox1.Font.Underline = True	
End If	
If Check3.Value $= 0$ Then	
RichTextBox1.Font.Underline = Fals	e
End If	
End Sub	
Private Sub Option 1 Click()	
If Option1 Value – True Then	
RichTextBox1 BackColor = vbRed	
End If	
End Sub	
Private Sub Option2_Click()	
If Option2.Value = True Then	
RichTextBox1.BackColor = vbBlue	
End If	
End Sub	
Private Sub Option3 Click()	
If Option3. Value = True Then	
RichTextBox1.BackColor = vbYello	V
End If	
End Sub	

Assignments: Design a program to change color related properties at runtime.

MYcsvtu Notes

EXPERIMENT NO. 5

AIM : Design a program to display regional languages of different states in India. Take many names of states of India in one list box control and other text box control should display their languages. Eg. Maharashtra -> Marathi

Description : This Program intends about add item property of a combo box corresponds to a text box.

Solution :

Form1		
Select State	ORISA	*
anguage	Oriya	

Coding:

Private Sub Combo1_CLICK()
If combo1.text=Orisa then
Text1.text=Oriya
Elseif combo1.text=WestBengal then
Text1.text=Bengali
End Sub

Assignments: Design a program to show month equivalent to entered integer. Like 1 for "January".

AIM: Write a program in visual basic to print Hello on the form & Welcome to the World of Visual Basic in the message box.

Description : This Program helps to generate different conditional messages which is also a another substitute of debugger.

	Solutio	n :		
lefo	ni I			_10
		Convent1		
			Projects Walkings To The World Of Wald Bac	M

Coding :

Private Sub Cmd_Ok_Click() Print "Hello" Msgbox "Welcome To the World of Visual Basic" Exit Sub

Assignments: Design a program to print smallest of 3 number using message box.

MYcsvtu Notes

EXPERIMENT NO. 7

AIM: Write a program in visual basic to get three numbers from the user with the help of input box and print the greatest.

Description : This Program helps the use of inputbox function.

Solution :

Connent Provide Peace Error Front Number	×
<u>r</u>	Carol

Coding :

$\mathbf{\Theta}^{(1)}$
Option Explicit
Dim n as integer
Dim m as integer
Dim f as integer
Private Sub Cmd_Ok_Click()
n=InputBox("Please Enter First Number")
m=InputBox("Please Enter Second Number")
f=InputBox("Please Enter Third Number")
if $n>m$ and $n>f$ then
Msgbox n & "is greatest"
Else if $m > n$ and $m > f$ then
Msgbox m & "is greatest"
Else
Msgbox f & "is greatest"
End If
Exit Sub
signments. Design a program to enter 2 numbers in inputbox & show the sw

Assignments: Design a program to enter 2 numbers in inputbox & show the swapped result in a message box.

AIM :Write a program in visual basic to get the first name & last name from the user & concatenate them & print full name in message box.

Description : This Program helps in concatenation of two strings which is a very common operation in applications.

Solution :

Cherne			ندامته
	Convert		
		The Required Name is dip name	
		•C	_

Coding :

Option Explicit Dim first as string Dim second as string

Private Sub Cmd_Ok_Click() First=InputBox("Please Enter First Name") second=InputBox("Please Enter Last Name") msgbox"The Required Name is " & first & " " & second Exit Sub

Assignments: Design a program to take Name & Roll Number with the help of an input box & concatenate them and show the result in a message box.

AIM : Write a program in visual basic to get one number & calculate the factorial of that number.

Description : This Program helps to introduce a looping in VB.

Solution :

S femil		TINX
Enter any number:	6	
	QL	
	Prejecti	
	The Required Factorial is 24	
12 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		

Coding :

Option Explicit Dim n as integer,f as integer,I as integer F=1 Private Sub Cmd_Ok_Click() n=val(text1.text) for i=1 to n F=F*i Next i msgbox"The Required Factorial is " & F Exit Sub

Assignments:

Design a program to generate a fabonicci series..
 Design a program to generate a sin series

MYcsvtu Notes

EXPERIMENT 10

AIM : Write a program in visual basic for searching a string in the text box.

Description : This Program introduces use of built in string functions.

Solution :

S.famt			a IDI X
7	Enter Any String	Two of the Table human experiences are good	
		Qk	

Coding:

```
Private Sub Form_Load ()
Text1.Text = "Two of the peak human experiences"
Text1.Text = Text1.Text & " are good food and classical music."
End Sub
```

Private Sub Form_Click ()

```
Dim Search, Where 'Get search string from user.
Search = InputBox("Enter text to be found:") 'Find string in text.
Where = InStr(Text1.Text, Search)
If Where Then
Text1.SetFocus Text1.SelStart = Where - 1
Text1.SelLength = Len(Search)
Else MsgBox "String not found."
End If
End Sub
```

Liiu Suo

Assignments:

Design a program to count the word in a given sentence.

AIM: Write a program in visual basic to use check box & option buttons on the form.

Description : This Program introduces another substitute of nested conditions in vb like nested if, switch case.

Solution :

🖏 For	m2			. 🗆 ×
	Che O	ck b ption	oxes and buttons	
	-Accessories-			
	<u>P</u> rinter	V	Monitor 🔽	
	M <u>o</u> dem	Г	NIC 🔽	
	Processor		Operating System	
	Pentium	С	Windows 98	2
	Pentium II	ତ	Windows NT	
	Pentium III	С	L	
		C	Confirm	
	You selected and accesso	l a Penti ries: pri	ium II with Windows N inter monitor NIC	Т
	Cancel		Exit	

Coding :

Option Explicit

Private Sub Form_Load () Ck_printer.value=0 Ck_moniter.value=0 Ck_modem.value=0 Ck_nic.value=0 opt_pent.value=false opt_pent2.value=false opt_win98.value=false opt_winnt.value=false MYcsvtu Notes lb msg.caption="" End Sub Private Sub cmd_confirm_Click () Dim PrName As string, Osname As String Dim AccPr, AccMn, AccMod, AccNic ' Check if processor was selected - if no ' display error message; if yes, gets its name If opt_pent.Value = false And opt_pent1.Value = false And opt_pent2.Value = false then msgbox ("You Must Select a processor") opt_pent.setfocus Else If opt_pent.value=True then PrName="Pentium" ElseIf opt_pent2.value=True then PrName="Pentium II" ElseIf opt_pent3.value=True then PrName="Pentium III" End If End If If opt_win98.Value = false And opt_winnt.Value = false then msgbox ("You Must Select an Operating System") opt win98.setfocus Else If opt_win98.value=True then OsName="Windows 98" Else OsName="Windows NT" End If End If

' Verify which accessories were checked in order to build output Label If ck_printer.value=1 then AccPr = "Printer" End If If ck_Moniter.value=1 then AccPr = "Moniter" End If If ck_ modem.value=1 then AccPr = "modem" End If If ck_Nic.value=1 then AccPr = "Nic" End If Lb_msg.Caption = "You selected a " & PrName & "with" & OsName & "and accessories :" & Accpr & AccMn & AccMod & AccNic MYcsvtu Notes End Sub

Private Sub cmd_Cancel_Click() Form_Load End Sub

Private Sub cmd_Exit_Click() Unload Me End Sub

Assignments:

Design a program to set back color of a form using option button.

AIM : Write a program in visual basic to use List box Control.

Description : This Program introduces how to populate the list in design time.

Solution :

	Ē	ist	1 ListBox	×			•
		Alp	habetic	Catego	rized		
Player's Name	1	Ξ	Font				
Text1			Font		MS Sa	ans Seri	if
		Ξ	List				
Plauer's Team			IntegralH	leight	True		
Gippto			ItemData	Э	(List)		
Bears			List		(List)		-
Cowboys		Ξ	Misc		Giant	s	A
			(Name)		Bears	5	
			Columns		ICOME 1	oys	
			HelpCont	textID	•		
			Index				
			MouseIco	on			
			MousePo	inter	0-00	eradic	
			MultiSele	ct	0 - No	one	
			Tag				

Coding:

Private Sub Form_Load() Lst_team.AddItem "Giants" Lst_team.AddItem "Redskins" Lst_team.AddItem "Cowboys" Lst_team.AddItem "Bears" Lst_team.AddItem "Jets"

End Sub

Assignments:

Design a program to populate the list for months.

AIM : Write a program in visual basic to use Combo Box & List Box in the Form.

Description : This Program introduces how to populate the list and combo box in Run Time.

Solution :

🐃 Registration	
REGISTRA	TION
Player's Name Red Green	
Player's Team Giants Redskins Cowboys Bears Go Running back, Cowboys	Position Running back Centre Guard Quarterback Receiver Running back Tackle
File Viewer	



Option Explicit Private Sub Form_Load() Lst_team.AddItem "Giants" Lst_team.AddItem "Redskins" Lst_team.AddItem "Cowboys" Lst_team.AddItem "Bears" Lst_team.AddItem "Jets" Cbo.position.AddItem "Guard" Cbo.position.AddItem "Tackle" Cbo.position.AddItem "Quarterback" Cbo.position.AddItem "Receiver" Cbo.position.AddItem "Centre" Cbo.position.AddItem "Centre" MYcsvtu Notes End Sub

Private Sub cb_go_Click() Label3.Caption=cbo_Position.Text_& "," & lst_team.Text End Sub

Assignments:

Design a program to transfer the contents of combo box into List box.

- **AIM**: Write a program in visual basic to DriveListBox, DirListBox, FileListBox.
- **Description :** This Program introduces how to directly access the files from computer.

Solution :

🐂 Form2		
File: 3DRUT.EXE ACCSTAT.EXE	Drive:	
ARP.EXE CALC EXE cd32.exe CDPLAYER.EXE CHANGECP.EXE CHARMAP.EXE	Directory:	Start
Type: Programs (EXE, COM, BAT) Text files (DOC, TXT, WRI) Graphics (GIF, JPEG)	ActiveX Control C aim95 All Users Application Data PW_DATA	Exit

Coding:

Option Explicit Dim FileSelected As String Dim FileSelected As String Dim Result

```
Private sub form_Load()

Lst_Types.AddItem "Programs(EXE, COM, BAT)"

Lst_Types.AddItem "Text Files (DOC, TXT, WRI)"

Lst_Types.AddItem "Graphics (GIF, JPEG)"

Lst_Types.ListIndex = 0

If Lst_Types.ListIndex = 1 then

File1.Pattern = "*.EXE; *.COM, *.BAT"

elseIf Lst_Types.ListIndex = 1 then

File1.Pattern = "*.DOC; *.TXT; *.WRI"

else

File1.Pattern = "*.GIF; *.JPEG"

End if

End sub
```

MYcsvtu Notes Private sub Drive1_Change() Dir1.Path=Drive1.Path End Sub Private sub Dir1_Change() File1.FileName = Dir1.Path End Sub

```
Private Sub cb_Start_Click()
   If File1.FileName ="" Then
       Msgbox("Select a file to run")
       End sub
   Endif
   FileSelected = File1.Path
   If Right(FileSelected, 1) = "\" Then
       FileSelected = FileSelected & File1.FileName
   Else
       FileSelected = FileSelected & "\" & File1.FileName
   End if
Select Case lst_Types.ListIndex
   Case 0:
       Result = Shell(FileSelected, VBNormalFocus)
   Case 1:
       RunProgram = "C:\Program Files\Accessories\WordPad.exe"
       Reslt = Shell(RunProgram & "" & FileSelected, VBNormalFocus)
   Case 2:
       RunProgram = "D:\Viewer\lviewpro.exe"
       Reslt = Shell(RunProgram & "" & FileSelected, VBNormalFocus)
   End select
End Sub
```

```
Private Sub cb_Viewer_Click()
Load DirList
DirList.Show vbModeless
End sub
```

Private Sub cb_exit_Click() Unload Me End End sub

Assignments:

Design a program to show a picture from different drives.

AIM : Write a program in visual basic for creating a Menu.

Description : This Program introduces MDI form & help us to use menu editor.

Solution :



Coding :

Private Sub mnu_exit_Click() Cb_Exit_Click End sub

'Invoke Move method for this form (Me) 'Look at Form object → Metho din help Private Sub mnu_Print_Click() Me.Move 0,0 End sub

'Parameters of move are: Left edge, top edge, width, height Measurement in twips (see Lesson 7) Private sub mnu_resize_Click() MYcsvtu Notes Me.Move 3000, 3000, 6000, 5000 End sub

'Load and show form DirList
Private sub mnu_Viewer_Click()
Load DirList
DirList.Show vbModeless
End sub

Private sub cb_go_Click() Lebel3.Caption = cbo_position.Text & ", " & lst_Team.Text If tb_Name.Text = "" Then Mnu_viewer.Enabled = False Cb_Viewer.Enabled = False Tb_name.setFocus else Mnu_viewer.Enabled = True Cb_Viewer.Enabled = True End if End sub

Assignments:

Design a program to create a menu of library management system.

AIM: Write a program in visual basic for adding pictures in the form, image control & picture Box.

Description : This Program introduces how to use a picture in forms.

Solution :



Coding :

In the above example the pictures were all added to the controls at design time. You can also insert or remove a picture at run time. You use the **LoadPicture function**, as in:

pic_departmentlogo = LoadPicture("C:\Pictures\acctnglogo.bmp")

'Removing the picture is done with the LoadPicture function without a file name: **pic_departmentlogo = LoadPicture ('''**)

Assignments : Design a program to load picture in the picture box in run time.

- **AIM :** Write a program in visual basic to connect Access with visual Basic for inserting records using ADODB.
- **Description :** This Program introduces the concept of backend & front end & inserting data into a existing data base of access.

Solution :

	Faculty In	ifo		
Name	Re	sidence Number		
Present_Address	ے د	urses		
	21			
Permanent_Address	En	nail ID		
	- D	te Of Birth	9/14/1986	-
Mobile Number	Da	te Of Jaining	2 / 1 /2006	•

Coding:

Option Explicit Dim rs As New ADODB.Recordset Dim cn As New ADODB.Connection Dim mycontrol As Control Dim counter As Integer Public LoginSucceeded As Boolean

"connect"

Sub connect() If cn.State = adStateOpen Then cn.Close End If

If rs.State = adStateOpen Then rs.Close End If cn.Open "Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" & App.Path & "\GlobalInfotech.mdb;Persist Security Info=False" rs.Open "SELECT * FROM Teacher_Info", cn, adOpenDynamic, adLockOptimistic End Sub MYcsvtu Notes Private Sub cmd_Exit_Click() Unload Me End Sub

Public Sub my()
For Each mycontrol In Me.Controls
If TypeOf mycontrol Is TextBox Then
mycontrol.Text = ""
End If
Next mycontrol
End Sub

Private Sub Cmd_Submit_Click(Index As Integer)
Dim l As Integer
connect
rs.AddNew
rs(0) = Trim(Label10.Caption)
rs(1) = Trim(txtName.Text)
rs(2) = Trim(txtPreAdd.Text)
rs(3) = Trim(txtPerAdd.Text)
rs(4) = Trim(txtMobile.Text)
rs(5) = Trim(txtResidence.Text)
rs(6) = Trim(txtCourse.Text)
rs(7) = Trim(txtEmail.Text)
rs(8) = DTPicker1.Value
rs(8) = DTPicker2.Value
rs.Update
MsgBox "One Record Submitted"
counter = 0
Call connect
While Not rs.EOF
counter = counter + 1
rs.MoveNext
Wend
my
Label10.Caption = counter $+ 1$
txtName.SetFocus
Exit Sub
End Sub

Private Sub Form_Unload(Cancel As Integer) counter = 0 End Sub

Private Sub Form_Load() Label10.Visible = False DTPicker1.Value = Date DTPicker2.Value = Date

```
Call connect
While Not rs.EOF
counter = counter + 1
rs.MoveNext
Wend
Label10.Caption = counter + 1
End Sub
```

Assignments : Design a program to insert the details of employee in the data base

- **AIM**: Write a program in visual basic to connect Access with visual Basic for Searching records using ADODB.
- **Description :** This Program searches the following information from the existing data base since searching a record in a database and applying any operation on that record is the key requirement of a database.

Solution :

		Facul	ty Info	
Teacher_ID	3/Abhishek	•	Residence Number	07882241309
Name	Abhishek	20	Courses	c
Permanent Address	Mio/2/130 Hudco	2	Emsil ID	abhi@rediffmail.com
Second States and State	angl at reach manua	=	Date Of Birth	12/ 1 /2006
Mobile Number	9926844454	Ţ.	Date Of Joining	12/ 1 /2006

Coding:

Option Explicit Dim rs As New ADODB.Recordset Dim cn As New ADODB.Connection Dim mycontrol As Control Dim counter As Integer Public LoginSucceeded As Boolean "connect" Sub connect() If cn.State = adStateOpen Then cn.Close End If If rs.State = adStateOpen Then rs.Close End If cn.Open "Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" & App.Path & "\GlobalInfotech.mdb;Persist Security Info=False" rs.Open "SELECT * FROM Teacher_Info", cn, adOpenDynamic, adLockOptimistic End Sub

```
Private Sub cmb_Teacher_ID_Click()
   Call connect
   While Not rs.EOF = True
      If Val(cmb_Teacher_ID) = rs.Fields("Tid") Then
            txtPreAdd = rs(1)
            txtPerAdd = rs(3)
            txtMobile = rs(4)
            txtResidence = rs(5)
            txtCourse = rs(6)
            txtEmail = rs(7)
            DTPicker1.Value = rs(8)
            DTPicker2.Value = rs(9)
      End If
      rs.MoveNext
   Wend
End Sub
Private Sub cmd_Exit_Click()
   Unload Me
End Sub
Private Sub Form_Load()
   Label10.Visible = False
   DTPicker1.Value = Date
   DTPicker2.Value = Date
   connect
   While Not rs.EOF = True
      cmb_Teacher_ID.AddItem Trim(rs(0)) & "/" & Trim(rs(1))
      rs.MoveNext
```

Wend End Sub

Assignments : Design a program to search the details of employee in the data base with respect to employee number.

- **AIM :** Write a program in visual basic to connect Access with visual Basic for Updating records using ADODB.
- **Description :** This Program searches the following information from the existing data base since searching a record in a database and update the record.

Solution :

, foucher Info					2010
		Facul	ty Info		ALM D
Teacher_JD	4/Abhi		Residence Number	07002241309	
Name	Abhi Bhalla	2	Courses	c	
		-	-		
Permanent_Address	Mig 100 Bhilai	-	Email ID	abhi@rediffmail.co	am -
		-	Date Of Birth	2 / 1 /2006	2
Mobile Number	99260+++5+		Date Of Joining	12/ 1 /2006	
				Bubmit	Exit
Coding				-	
Coung:					
Dim rs As Now	ADODR Basard	sot			
Dim is As New	ADODD.Record	oction			
Dim mycontrol	As Control	CHOIL			
Dim counter As	Integer				
Public LoginSuc	ceeded As Boole	ean			
	""'connect"""""""				
Sub connect()					
If cn.State =	adStateOpen Th	en			
cn.Close					
End If					
If rs.State $=$	adStateOpen The	en			
rs.Close					
End If					
cn.Open "Pro	ovider=Microsof	t.Jet.OLE	EDB.4.0;Data S	ource=" & A	.pp.Path &
"\GlobalInfo	tech.mdb;Persist	t Security	Info=False"		
rs.Open "SE	LECT * FROM	Teacher_	Info", cn, adOp	enDynamic,	adLockOp
End Sub					

```
MYcsvtu Notes
Private Sub cmb Teacher ID Click()
   Call connect
   While Not rs.EOF = True
       If Val(cmb_Teacher_ID) = rs.Fields("Tid") Then
          txtPreAdd = rs(1)
          txtPerAdd = rs(3)
          txtMobile = rs(4)
          txtResidence = rs(5)
          txtCourse = rs(6)
          txtEmail = rs(7)
          DTPicker1.Value = rs(8)
          DTPicker2.Value = rs(9)
       End If
       rs.MoveNext
   Wend
End Sub
```

Private Sub cmd_Exit_Click() Unload Me End Sub

```
Private Sub Command1_Click()
   connect
   While Not rs.EOF = True
       If Val(cmb_Teacher_ID.Text) = rs(0) Then
          rs(1) = Trim(txtPreAdd.Text)
          rs(2) = Trim(txtPerAdd.Text)
          rs(4) = Trim(txtMobile)
          rs(5) = Trim(txtResidence)
          rs(6) = Trim(txtCourse.Text)
          rs(7) = Trim(txtEmail.Text)
          rs(8) = DTPicker1.Value
          rs(9) = DTPicker2.Value
          rs.Update
       End If
   rs.MoveNext
   Wend
End Sub
```

MYcsvtu Notes Private Sub Form_Load() Label10.Visible = False DTPicker1.Value = Date DTPicker2.Value = Date connect While Not rs.EOF = True cmb_Teacher_ID.AddItem Trim(rs(0)) & "/" & Trim(rs(1)) rs.MoveNext Wend End Sub

Assignments : Design a program to update the details of employee in the data base with respect to employee number.

- **AIM**: Write a program in visual basic to connect Access with visual Basic for Deleting records using ADODB.
- **Description :** This Program searches the following information from the existing data base since searching a record in a database and Delete record.

Solution :

		Faculty Info	
Teacher_ID	3/Abhishek	Residence Numb	07882241309
Name	Abhishek	Courses	G
Permanent_Address	Mig/2/130,Hudco	Email ID	abhi@reditfmail.com
		Date Of Birth	12/ 1 /2006
Mobile Number	9926844454	Df Joining	12/ 1 /2006

Coding :

End If If rs.State = adStateOpen Then rs.Close End If cn.Open "Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" & App.Path & "\GlobalInfotech.mdb;Persist Security Info=False" rs.Open "SELECT * FROM Teacher_Info", cn, adOpenDynamic, adLockOptimistic End Sub

```
MYcsvtu Notes
Private Sub cmb_Teacher_ID_Click()
 Call connect
 While Not rs.EOF = True
   If Val(cmb_Teacher_ID) = rs.Fields("Tid") Then
      txtPreAdd = rs(1)
      txtPerAdd = rs(3)
      txtMobile = rs(4)
      txtResidence = rs(5)
      txtCourse = rs(6)
      txtEmail = rs(7)
      DTPicker1.Value = rs(8)
      DTPicker2.Value = rs(9)
   End If
   rs.MoveNext
 Wend
End Sub
```

Private Sub cmd_Exit_Click() Unload Me End Sub

```
Private Sub Command1_Click()

connect

While Not rs.EOF = True

If Val(cmb_Teacher_ID.Text) = rs(0) Then

rs.Delete

rs.Update

MsgBox "One Record Deleted"

End If

rs.MoveNext

Wend

End Sub
```

```
Private Sub Form_Load()

Label10.Visible = False

DTPicker1.Value = Date

DTPicker2.Value = Date

connect

While Not rs.EOF = True

cmb_Teacher_ID.AddItem Trim(rs(0)) & "/" & Trim(rs(1))

rs.MoveNext

Wend

End Sub
```

Assignments : Design a program to Delete the details of employee in the data base.

AIM : Write a program in visual basic to print Form.

Description : This Program introduces how to print the form

Solution :

	I dentity Card
Kamo	Kalpana
ReD No.	10
Addrees	Bhile
Jac	12+h
Date Of Blath	19/09/1980
Elevel Group	[B+

Coding :

Private Sub Command1_Click() Form1.PrintForm End Sub

Private Sub Command2_Click() End End Sub

```
Private Sub Command3_Click()
Text1.Text = ""
Text4.Text = ""
Text3.Text = ""
Text7.Text = ""
Text5.Text = ""
Text6.Text = ""
Text1.SetFocus
End Sub
```

Assignments : Design a program to print the form having employee details.

AIM : Write a program in visual basic to generate a data report.

Description : This Program introduces how to generate a hard copy of existing database.

Solution :

				Facul	ty Info					
Teacher_ID	4/Abl	hi Bhalls			Residence Nu	mber 0	7882241309			
Name	Abhi Bh	aßa		*	Courses	C				
Permanent Adde	ess [Mio 180	Bhilai		2	Email ID	a	bhi@rediffmail.	com		
				-1	Date Of Birth	2	/ 1 /2006		•	
Mobile Number	992684	4454			Date Of Jainin	s [1	2/1/2006		-	
							Report	Egit		
otailepart). Zoon 1000										
	Add:	ent Add	Number	mber:	: Id:					
4 Abhi Bhalla	_Add: Mig 180 Bhilai	ent_Add : Mig 180 Bhilui	Number : 99268 44454	mber: 078822 41309	i Id: C abhi @rec ffma Leon	i 1i 1i 11		I		
4 Abhi Bhalla	_Add: Mig 180 Bhilai	ent_Add : Mig 130 Bhilni	Number : 99268 44454	mber: 078822 41309	: Id: C abhi @rea ffma Leon	i di m		l		
4 Abhi Bhalla	_Add: Mig 180 Bhilai	ent_Add : Mig 180 Bhilai	Number : 99268 44454	mber: 078822 41309	: Id: C abhi @rec ffma Leon					
4 Abhi Bhalla	_Add: Mig 180 Bhilai	ent_Add : Mig 130 Bhilai	Number : 99268 44454	mber: 078322 41309	: Id: C abhi @rec ffma Leon					
4 Abhi Bhalla	_Add: Mig 180 Bhitai	ent_Add : Mig 130 Bhilai	Number : 99268 44454	mber: 078822 41309	: Id: C abhi @rec ffma L.con					
4 Abhi Bhalla	_Add: Mig 130 Bhilai	ent_Add : Mig 130 Bhilmi	Number : 99268 44454	mber: 078822 41309	: Id: C abhi Grea ffma Leon					

MYcsvtu Notes **Coding :** Private Sub Command1_Click() de.rsCommand1.Open "select * from Teacher_Info where Tid=" & Val(cmb_Teacher_ID.Text) & "", cn, adOpenDynamic, adLockOptimistic DataReport1.Show End Sub

Assignments : Design a program to generate a data report having employee details.
EXPERIMENT 23

AIM : Write a program in visual basic using our own control.

Description : This Program introduces how to create our own control.

Solution :

Control for clearing all the Text Box

. Form1	in vi
	Personal Info
Name	
Address	
Call Number	
Email ID	
Blood Group	
	Clear

Coding:

Private Sub Command1_Click() Dim mycontrol As Control For Each mycontrol In Me.Controls If TypeOf mycontrol Is TextBox Then mycontrol.Text = "" End If Next Text1.SetFocus End Sub

Assignments : Design a program to clear a label control using your own control.

MYcsvtu Notes

EXPERIMENT 24

AIM : Write a program in visual basic using Active X control.

Description : This Program introduces how to use Active X control like Progress Bar and DtPicker Control.

Solution :

ProgressBar Control



Coding :

Private Sub Timer1_Timer() If ProgressBar1.Value < 100 Then ProgressBar1.Value = ProgressBar1.Value + 10 Else frmLogin.Show frmLogin.txtPassword.SetFocus Unload Me End If End Sub

Assignments : Design a program to use Active X control DtPicker.

EXPERIMENT 25

AIM : Write a program in visual basic using ADODC Control.

Description : This Program shows how we can connect Ms Access with Visual Basic using ADODC control..

Solution :

ADODC Control

Tel fant		6.46
Eater Baue	Rathas	
Address	Bullei	
Email ID	rechas@retiffmail.com	
Mabile Number		
Callege	Reagts	

Coding :

First go to the components and add Microsoft ADODC 6.0(OLEDB) Then drag the control to the form. Go to the properties of ADODC and Use connection strings like

Provider=Microsoft.Jet.OLEDB.4.0;Data Source=C:\data.mdb;Persist Security Info=False

Then select the table in the Record Source

Set the properties (Data Source and Data Field) of all the text box.

Assignments : Design a program to delete using ADODC.

Viva Questions

- 1. What is control?.
- 2. How VB is different than 'C' programming language
- 3. What is use of text box control?
- 4. What is event driven programming?
- 5. What are the difference between combo box control & a list box control?
- 6. What are the different types of buttons attached with a message box?
- 7. What is the difference between input box & message box?
- 8. What is the difference between looping in C language & Visual Basic?
- 9. What are the different string functions in vb?
- 10. What are the different nested conditional statements in vb?
- 11. What are the basic properties of menu editor?
- 12. What is the difference between adodb & adodc.