

1.8 THE GREETUSER APPLICATION

Let us start by developing a user-interface to look like the one shown below.

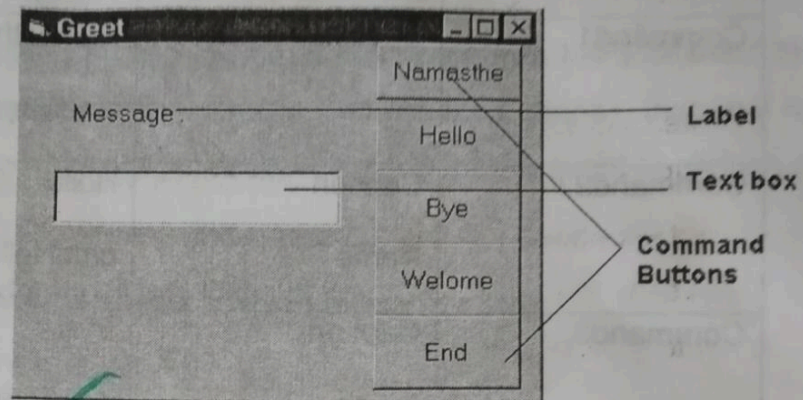


Figure 1.9 : The Greet application user interface

To get acquainted with VisualBasic right away, the following are some steps you can use to create a real-life user interface from scratch:

1. In windows 95/NT, start Microsoft VisualBasic if you have not done so already. VisualBasic displays a New project dialog box, asking you what type of program you want to create.
2. Click on the StandardEXE icon and click on Open. VisualBasic displays a blank form - form1.
3. Move the mouse cursor over the right edge of the form so the mouse cursor turns into a left and right pointing arrow, and then hold down the left mouse button and drag the mouse to make the form larger.
4. Choose View Toolbox to make the toolbox appear on the left side of the screen. **(Skip this step if the Toolbox is already visible.)**
5. Click on the command button icon in the VisualBasic Toolbox. Drag the mouse so the command button appears on the form. By default the message on the command button is Command1. Similarly add 4 more command buttons.

6. Change the properties of the command buttons as given below :

Object	Property	Value
Command1	Caption	Namasthe
	Name	cmdNamasthe
Command2	Caption	Hello
	Name	cmdHello
Command3	Caption	Bye
	Name	cmdBye
Command4	Caption	Welcome
	Name	cmdWelcome
Command5	Caption	End
	Name	cmdEnd

7. Add a Text box control to the form. By default its name is Text1 and its text property has the value Text1. Scroll to the Text property of the text box and delete the word, text1.
8. Add a Label control to the form. Change its caption property from label1 to Message.
9. Select the form and change its Caption property to Greet.
10. Save the file by selecting File (from the menu bar) and then Save Project. The Save As dialog appears. VisualBasic prompts you for two file names - one to store the form (extension frm) and the other to store the

project(extension VBP). Select the folder in which you want to save your work and type the file name. Example, Greet. Greet.frm and Greet.VBP will be created.

11. Now, run the application by clicking on the Start icon on the tool bar. The run-time interface appears on the screen. Click on the buttons – there will not be any change as we have not yet added the code for the event of clicking on the buttons.

12. Add the event procedure for each of the buttons :

```
Private Sub cmdNamasthe_Click()
```

```
    Text1.text = " NAMASTHE "
```

```
End Sub
```

```
Private Sub cmdHello_Click()
```

```
    Text1.text = " Hello "
```

```
End Sub
```

```
Private Sub cmdBye_Click()
```

```
    Text1.text = " Good bye "
```

```
End Sub
```

```
Private Sub cmdWelcome_Click()
```

```
    Text1.text = " Swagath "
```

```
End Sub
```

```
Private Sub cmdEnd_Click()
```

```
    End
```

```
End Sub
```

13. Save the project and run the program. Now, click on each of the buttons and observe the message change in the text box as a result of executing the code.

14. Exit from the application by selecting the End button.

1.9 THE IMAGES APPLICATION

Let us start by developing a user-interface to look like the one shown below.

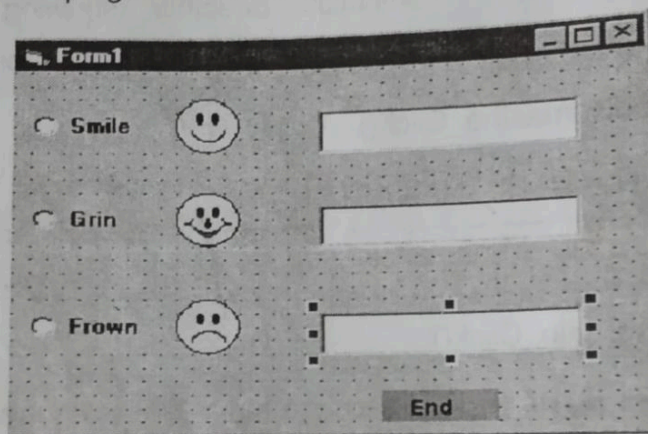


Figure 1.10 : The Images Application User Interface

1. In windows 95/NT, start Microsoft VisualBasic if you have not done so already. VisualBasic displays a New project dialog box, asking you what type of program you want to create.
2. Click on the StandardEXE icon and click on Open. VisualBasic displays a blank form - form1.
3. Click on the command button icon in the VisualBasic Toolbox. Drag the mouse so the command button appears on the form. Change the name to cmdExit and caption to Exit.
4. Click on the Option Button icon in the Toolbox and draw an option button. Repeat this process two more times to draw three option buttons. Change the Caption properties of option buttons to Smile, Grin, Frown. Change the name

property of the Option buttons to optSmile, optGrin and optFrown respectively.

5. Click on the Image Icon and draw an image box. Repeat this process two more times to draw three image boxes. Change the names of the three image boxes to imgSmile, imgGrin and imgFrown respectively.

Select imgSmile and scroll to its Picture property. Assign appropriate icon files from "C:\vb6\graphics\icons\misc" directory (showing different facial expressions). Similarly, select appropriate pictures for imgGrin and imgFrown.

6. Click on the Text Box icon and draw a text box. Repeat this process two more times to draw three text boxes. Change the 'Name' property of the text boxes text1, text2, and text3 as txtSmile, txtGrin and txtFrown respectively, Text property to Nothing.
7. Choose File > Save Form1 or press Ctrl+S. A Save As dialog box appears, asking what name you want for the file.(You may want to click in the Save in list box to choose a specific folder to save your VisualBasic project and forms.) Type Images and select Save. This saves your form in a file called images.FRM.
8. Choose File Save Project. A Save Project As dialog box appears, asking what name you want to use for your project. Type images and click on save. This saves your entire VisualBasic project in a file called images.VBP.
9. Add the Event procedures :

To open the code window, press F7 or choose from menu bar, **View > Code**

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```
Private sub optGrin_click()  
    imgFrown.Visible =False  
    imgSmile.Visible =False  
    imgGrin.Visible =True  
    txtSmile.TEXT=" "  
    txtGrin.TEXT ="I'm going to Disney World !"  
    txtFrown.TEXT =" "  
  
End Sub
```

Click on the downward-headed arrow in the object list box at the top of the code window and then choose the optSmile object. VisualBasic displays an empty **Private Sub optSmile_Click()** procedure.

```
Private Sub optSmile_Click()  
    imgFrown.Visible =False  
    imgSmile.Visible =True  
    imgGrin.Visible =False  
    txtSmile.TEXT="Hello, World !"  
    txtGrin.TEXT =" "  
    txtFrown.TEXT =" "  
  
End Sub
```

Click on the downward-pointing arrow in the object list box at the top of the code window and then choose the optFrown object.

```
Private Sub optFrown_Click()  
    imgFrown.Visible = True  
    imgSmile.Visible = False  
    imgGrin.Visible = False  
    txtSmile.Text = ""  
    txtGrin.Text = ""  
    txtFrown.Text = "Good-bye cruel world "  
End Sub  
Private Sub cmdExit_Click()  
    End  
End Sub
```

10. Press F5 to run your program or choose from the menu bar Run -> Start

If you typed everything correctly, VisualBasic displays your user interface on the screen. Click on the option button next to the label " I'm sad." VisualBasic displays a face on the screen, along with the message " Good bye cruel world ". Click on the option button next to the label " I'm Okay." VisualBasic displays a smiley face "Hello World!". Click on the option button next to the label "I'm Happy." VisualBasic displays a really happy face on the screen, along with the message "I'm going to Disney World!" Click on the command button labeled Exit. VisualBasic quits running your program and returns you to VisualBasic.

1.10 SELF-TEST QUESTIONS

1. The full form of RAD is Rapid Application Development.
2. Tool bar contains 8.