

## Worksheet 4

**4.1** Try to walkthrough the following program and write down the expected results. Key-in the program and compare the results after execution. This program helps you to understand the use of *if-then-else* statement.

**Step 1:** Create a form with two command buttons, three labels, two text boxes and one picture box according to the properties table below

### Properties Table

Object	Property	Setting
Form	Name	frmPay
	Caption	Gross Pay
Command Button	Name	cmdCompute
	Caption	&Compute Pay
Command Button	Name	cmdExit
	Caption	&Exit
Label	Name	LblHours
	Caption	Hours worked
Label	Name	LblRate
	Caption	Hourly rate
Label	Name	lblMessage
	Caption	Please enter hourly rate of pay and hours worked
Text Box	Name	TxtHours
	Caption	(empty)
Text Box	Name	TxtRate
	Caption	(empty)
Picture Box	Name	picOutput
	Caption	(empty)

### Layout

The screenshot shows a Windows-style window titled "Gross Pay". Inside the window, there are two labels: "Hours worked" and "Hourly rate", each followed by a text box. Below these is a larger text area containing the message "Please enter hourly rate of pay and hours worked :". At the bottom of the window, there are two buttons: "Compute Pay" and "Exit".

**Step 2 :** *Add codes for the events*  
*cmdCompute\_Click()*  
*cmdExit*

Codes for **cmdCompute**

```
Dim Hours As Single, Rate As Single, GrossPay As Single
MaxRegHour = 80
OT_factor = 1.5
Hours = Val(txtHours.Text)
Rate = Val(txtRate.Text)
If (Hours <= MaxRegHour) Then
    GrossPay = Rate * Hours
Else
    GrossPay = Rate * MaxRegHour _
    + OT_factor * Rate * (Hours - MaxRegHour)
End If

picOutput.Cls
picOutput.Print "Hours worked = "; Format(Hours, "@@@@@")
picOutput.Print "Hourly pay rate = "; _
    Format(FormatNumber(Rate, 2), "@@@@@@@")
picOutput.Print "The gross pay = $"; _
    Format(FormatNumber(GrossPay, 2), "@@@@@@@@")
End Sub
```

Codes for **cmdExit**

```
Private Sub cmdExit_Click()
    End
End Sub
```

**Step 3 :** *Execution*

Click the **txtHours** text box and type *70*.  
Click the **txtRate** text box and type *20.0*.  
Click the **Compute Pay** command button.  
Click the **txtHours** text box and type *100*.  
Click the **txtRate** text box and type *15.0*.  
Click the **Compute Pay** command button.  
Try other values for hours and pay rate.  
Terminate the program by clicking the **Exit** button.