**ITEC397 Chapter 04 LABWORK**

1. **Calling a subroutine within another subroutine with and without ‘Call’**

* Goto A1 on the active Excel sheet and enter the number 5
* Create a new module
* Within the module add the following code and bring the cursor on to Sub Test\_If() and press F5 (or click the Run button)

*Sub Test\_If()*

*If Application.ActiveCell Mod 2 = 0 Then*

*MsgBox "Cell is contains an even number"*

*Else*

*MsgBox "Cell is contains an odd number"*

*End If*

*End Sub*

* See the mesage for number 5 is *"Cell is contains an odd number".*
* Replace the content of the A1 with number 6, and re-run your program to see the new message as it will be *"Cell is contains an even number" for the number 6.*

1. **The use of multiple conditional statements**

* Write the number 8 into A1
* Modify the previous example as it will be as given below and run it

*Sub Test\_If()*

*n = Application.ActiveCell*

*MsgBox n*

*If n > 0 And n Mod 2 = 0 Then*

*MsgBox "Cell is contains a positive even number"*

*End If*

*End Sub*

* Run your program.
* Replace the number in the A1 with 9 and re-run wour program

1. **Select-Case Statement**

* Write the following code into the module-1

*Function l\_grade(sc As Single)*

*Select Case (sc)*

*Case Is >= 90*

*l\_grade = "A"*

*Case Is >= 80*

*l\_grade = "B"*

*Case Is >= 70*

*l\_grade = "C"*

*Case Is >= 60*

*l\_grade = "D"*

*Case Is >= 50*

*l\_grade = "E"*

*Case Else*

*l\_grade = "F"*

*End Select*

*End Function*

* GO to the A1 on the acive worksheet and write thb6e text “Exam Scores”
* Write the text “Letter Graded” to the B1
* Through A2..A6 enter any 6 numbers within the range 0 to 100
* GO to B2 and enter the formula =l\_grade(A2)
* Copy the formula from B2 to the cells from B3 to B6

1. **For..Next Loop**

* Write thee given code into the module-1 and run it

*Sub sum\_nums()*

*Ss = 0*

*For n = 1 To 20*

*Ss = Ss + n*

*Next n*

*MsgBox "Total=" & Ss*

*End Sub*

* Modify the program as the third line will be as

*For n = 1 To 20 Step 2*

* Run it to see the sum of all odd numbers from 1 to 19
* Modify the program as it will be given below and run it to see the effect of Exit For statement

Sub sum\_nums()

Ss = 0

For n = 1 To 20 Step 2

**If n > 10 Then Exit For**

Ss = Ss + n

Next n

MsgBox "Total=" & Ss

End Sub

1. **For Each..Next Loop**

* Go to the Active Excel Sheet and add 2 more new sheets
* Write thee given code into the module-1 and run it see the Tab sheet names

*Sub ShowName()*

*Dim oWSheet As Worksheet*

*For Each oWSheet In Worksheets*

*MsgBox oWSheet.name*

*Next oWSheet*

*End Sub*