**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*