**Assignment 20**

1. **Write a VBA code to select the cells from A5 to C10. Give it a name**

**“Data Analytic” and fill the cells with the following cells “This is Excel VBA”**

**Number Odd or even**

**56**

**89**

**26**

**36**

**75**

**48**

**92**

**58**

**13**

**25**

* Sub FillAndNameRangeWithAnalysis()

Dim targetRange As Range

Dim currentCell As Range

Set targetRange = Range("A5:C10")

targetRange.ClearContents

ThisWorkbook.Names.Add Name:="DataAnalytic",

RefersTo:=targetRange

Set currentCell = targetRange.Cells(1, 1)

currentCell.Value = 56

currentCell.Offset(1, 0).Value = 89

currentCell.Offset(2, 0).Value = 26

currentCell.Offset(3, 0).Value = 36

currentCell.Offset(4, 0).Value = 75

currentCell.Offset(5, 0).Value = 48

currentCell.Offset(6, 0).Value = 92

currentCell.Offset(7, 0).Value = 58

currentCell.Offset(8, 0).Value = 13

currentCell.Offset(9, 0).Value = 25

Dim i As Integer

For i = 0 To 9

currentCell.Offset(i, 1).Value = IIf(currentCell.Offset(i, 0).Value Mod 2 = 0, "Even", "Odd")

Next i

End Sub

1. **Use the above data and write a VBA code using the following**

**statements to display in the next column if the number is odd or even**

**a. IF ELSE statement**

**b. Select Case statement**

**c. For Next Statement**

* Sub FillAndAnalyzeRange()

Dim targetRange As Range

Dim currentCell As Range

Set targetRange = Range("A5:C10")

targetRange.ClearContents

ThisWorkbook.Names.Add Name:="DataAnalytic", RefersTo:=targetRange

Set currentCell = targetRange.Cells(1, 1)

currentCell.Value = "This is Excel VBA"

currentCell.Offset(1, 0).Value = 56

currentCell.Offset(2, 0).Value = 89

currentCell.Offset(3, 0).Value = 26

currentCell.Offset(4, 0).Value = 36

currentCell.Offset(5, 0).Value = 75

currentCell.Offset(6, 0).Value = 48

currentCell.Offset(7, 0).Value = 92

currentCell.Offset(8, 0).Value = 58

currentCell.Offset(9, 0).Value = 13

currentCell.Offset(10, 0).Value = 25

Dim i As Integer

For i = 2 To 11

If currentCell.Offset(i - 1, 0).Value Mod 2 = 0 Then

currentCell.Offset(i - 1, 2).Value = "Even"

Else currentCell.Offset(i - 1, 2).Value = "Odd"

End If

Next i

End Sub

1. **What are the types of errors that you usually see in VBA?**

* Compile error, run time error

1. **How do you handle Runtime errors in VBA?**

* Using the “ On Error “ statement

**5. Write some good practices to be followed by VBA users for handling**

**Errors**

* Using “ On Error GoTo “ statement. And use meaning full names

1. **What is UDF? Why are UDF’s used? Create a UDF to multiply 2**

**numbers in VBA**

UDF (User-Defined Function) helps to create your own custom functions, define your own calculations, operations, or transformations tailored to your specific needs.

Function MultiplyNumbers(number1 As Double, number2 As Double) As Double MultiplyNumbers = number1 \* number2 End Function

=MultiplyNumbers(A1, B1)