

**Excel Assignment - 20**

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

Sub CheckEvenOrOddNumber()

Dim p As Range

For Each p In Worksheets("VBA").Range("B5:B12")

If IsNumeric(p.Value) Then

If p.Value Mod 2 = 0 Then

p.Offset(0, 1).Value = "Even"

Else

p.Offset(0, 1).Value = "Odd"

End If

End If

Next p

End Sub

b. Select Case statement

Sub CheckOddEven()

CheckValue = Range("A1").Value

Select Case (CheckValue Mod 2) = 0

Case True

MsgBox "The number is even"

Case False

MsgBox "The number is odd"

End Select

End Sub

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

In Visual Basic, errors fall into one of three categories: syntax errors, run-time errors, and logic errors.

4. How do you handle Runtime errors in VBA?

You do this by including an On Error statement in your macro. When a runtime error occurs, the On Error statement transfers control to an error-handling routine. To trap errors, you must set your error trap above the point in the procedure where errors are likely to occur.

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

**VBA Error Handling** refers to the process of anticipating, detecting, and resolving VBA Runtime Errors. The VBA Error Handling process occurs when writing code, before any errors actually occur.

**VBA Runtime Errors** are errors that occur during code execution. Examples of runtime errors include:

* Referencing a non-existent workbook, worksheet, or other object ([Run-time Error 1004](https://www.automateexcel.com/vba/error-1004-application-defined-object-defined/))
* Invalid data ex. referencing an Excel cell containing an error ([Type Mismatch – Run-time Error 13](https://www.automateexcel.com/vba/mismatch-errors/))
* Attempting to divide by zero



6. What is UDF? Why are UDF’s used? Create a UDF to multiply 2 numbers in VBA.

UDF is a custom function that takes data, performs a calculation, and returns the desired result. The source data can be numbers, text, dates, booleans, and even arrays. The result of calculations can be a value of any type that Excel works with or an array of such values.

