Advance Excel Assignment 19

1. What are the data types used in VBA?

Ans:- In VBA Mainly there is two data type

1. **Numeric Data Type:-**

                        Byte
                        Integer
                        Long
                        Single
                        Double
                        Currency
                        Decimal

2. **Non-Numeric Data Types:-**

                        String
                        String
                        Boolean
                        Date
                        Object
                        Variant (numeric)
                        Variant (text)
                        User-defined

2. What are variables and how do you declare them in VBA? What happens if you don't declare a variable?

Ans:- Variables can be declared as one of the following data types: Boolean, Byte, Integer, Long, Currency, Single, Double, Date, String (for variable-length strings), String * length (for fixed-length strings), Object, or Variant.

 If we don't specify a data type, the Variant data type is assigned by default.

3. What is a range object in VBA? What is a worksheet object?
Ans:- Range is a property in VBA that helps specify a particular cell, a range of cells, a row, a column, or a three-dimensional range. In the context of the Excel worksheet, the VBA range object includes a single cell or multiple cells spread across various rows and columns.

Worksheet Object:- The worksheet object represents a single worksheet that is a part of the workbook's worksheets (or sheets) collection.

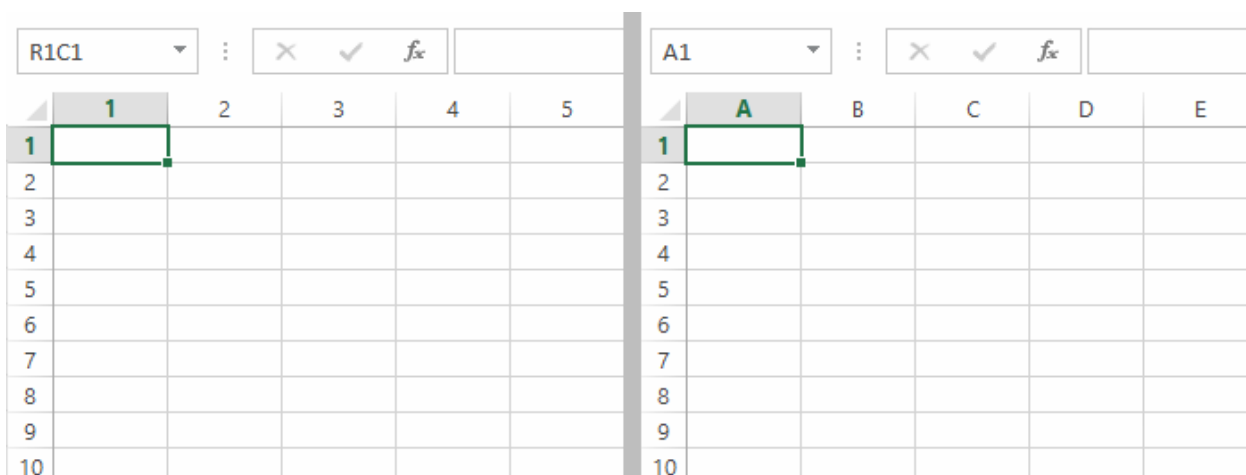4. What is the difference between worksheet and sheet in excel?
Ans:- Basically all Worksheets are Sheets, but not all Sheets are Worksheet.
   Worksheets – Worksheets is a collection object which contains all the individual Worksheet objects in a workbook.

   Sheets – Sheets is a collection object which contains all the individual Worksheet and Chart sheet objects in a workbook.

5. What is the difference between A1 reference style and R1C1 Reference style? What are the advantages and disadvantages of using R1C1 reference style?
Ans:- Every Excel spreadsheet contains rows and columns. Most of the time, columns are identified by letters (A, B, C), and rows are identified by numbers (1, 2, 3). In Excel, this is known as the A1 reference style. However, some prefer to use a different method where columns are also identified by numbers. This is known as the R1C1 reference style.

6. When is offset statement used for in VBA? Let's suppose your current highlight cell is A1 in the below table. Using OFFSET statement, write a VBA code to highlight the cell with "Hello" written in it.

A B C
1 25 354 362
2 36 6897 962
3 85 85 Hello
4 96 365 56
5 75 62 2662

Ans:- **VBA offset statement:-** VBA Offset function one may use to move or refer to a reference skipping a particular number of rows and columns.

VBA code to highlight the cell with "Hello" written in it.

```
Sub Workbook_SheetSelectionChange(ByVal Sh As Object, ByVal Target As Excel.Range)
'Hello
Static xLastRng As Range
On Error Resume Next
Target.Interior.ColorIndex = 6
xLastRng.Interior.ColorIndex = xlColorIndexNone
Set xLastRng = Target
End Sub
```