Assignment - 19

1. What are the data types used in VBA?

* Numerical datatype
  + Byte
  + Integer
  + Long
  + Single
  + Double
  + Currency
  + Decimal
* Non-numerical datatype
  + String
  + Boolean
  + Date
  + Object
  + Variant
  + User-defined

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

A variable is a used to store the information in VBA code. Dim keyword is used to declare a variable.   
We need to mention variable name as well as its data type in declaration.  
eg: Dim Count as Integer  
  
It is necessary to declare a variable , if it is not declared in VBA then it cannot store the value.

3. What is a range object in VBA? What is a worksheet object?

Range object is a vector-like object where each element describes a range of integer values. It represents a cell, row, column, collection of cells.

Worksheet object represents a single worksheet that is part of workbooks worksheet collection.

4. What is the difference between worksheet and sheet in excel?  
Worksheet is a single page contains a collection of cells organized in rows and columns. Sheet is same as worksheet.

5. What is the difference between A1 reference style and R1C1 Reference style? What are the advantages and disadvantages of using R1C1 reference style?

**Difference between A1 reference style and R1C1 Reference style:**

* In A1 reference style, column name is mentioned as alphabet(A) and row number is mentioned as number (1)
* In R1C1 reference style, both rows and columns are in number. It refers the location of cells as ‘R’ followed by row number and ‘C’ followed by column number.

**Advantages and disadvantages of using R1C1 reference style:**

* R1C1 reference style is useful in computing row and column positions in macros. It can be used while debugging formulas and identifying errors.
* Disadvantage of R1C1 reference style is that it is less user friendly than A1 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

VBA offset is used 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 change\_offset()

Range("A1").Offset(2, 2).Select

End Sub