**Advance Excel Assignment 19**

1. What are the data types used in VBA?

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 you don't specify a data type, the **Variant data type is assigned by default**

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

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If we will not declaring any variable our code will show an error and process will be stop.

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

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.

The Worksheet object is **a member of the Worksheets collection**. The Worksheets collection contains all the Worksheet objects in a workbook. The Worksheet object is also a member of the Sheets collection. The Sheets collection contains all the sheets in the workbook (both chart sheets and worksheets).

1. What is the difference between worksheet and sheet in excel?

**A worksheet is a just single-page data file that is generally created as a specific data file, while a spreadsheet is a whole program where the user can create a worksheet or workbook**. A workbook is a bundle of worksheets where generally one or more than one worksheet is a vailable

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

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

The R1C1 reference style is useful **if you want to compute row and column positions in macros**. In the R1C1 style, Excel indicates the location of a cell with an "R" followed by a row number and a "C" followed by a column number.

1. 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.

VBA Offset function one may use **to move or refer to a reference skipping a particular number of rows and columns**. The arguments for this function in VBA are the same as those in the worksheet.

Sub offset\_values()

Range(“A2”).offset(-1,0).select

End Sub