**Excel Assignment – 19**

1. **What are the data types used in VBA?**

**Ans:** Below is a list of common VBA variables (known as data types) used in macros and their purposes:

* Integer: Used to store number values that won’t take on decimal form.
* Single: Used to store number values that may take on decimal form. Can also contain integers.
* Double: A longer form of the single variable. Takes up more space but is needed for larger numbers.
* Date: Stores date values.
* String: Stores text. Can contain numbers, but will store them as a text (calculations cannot be performed on numbers stored as a string)
* Boolean: Used to store binary results (True/False, 1/0)

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

**Ans:** Variables are specific values that are stored in a computer memory or storage system. You can use VBA Dim keyword in syntax to declare variables explicitly. Undeclared variables are undefined because they simply do not exist.

1. **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.

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

**Ans**: A worksheet is just a 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.

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

**Ans:** In the A1 reference style, you have the column name as an alphabet and the row name as a number and when you select the A1 cell that means you are in column A and row 1. But in R1C1 both column and row are in numbers.

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 in VBA?**

**Ans:** In the context of the Excel worksheet, the VBA range object includes a single cell or multiple cells spread across various rows and columns. read more first. Then, from that range object, we can use the OFFSET property.