**Assignment – 19**

1. What are the data types used in VBA?

**Variable Data Types**

* 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. ...
* Double: A longer form of the single variable. ...
* Date: Stores date values.
* String: Stores text. ...
* Boolean: Used to store binary results (True/False, 1/0)

2. What are variables and how do you declare them in VBA? What

happens if you don’t declare a variable?

**You can implicitly declare a variable in Visual Basic simply by using it in an assignment statement**. All variables that are implicitly declared are of type Variant. Variables of type Variant require more memory resources than most other variables. Undeclared variables are undefined because they simply do not exist. As described earlier, assigning a value to an undeclared variable does not cause an error; instead, **it implicitly declares the variable in the global scope**.

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.

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

In essence, **all Worksheets are Sheets, but not all Sheets are Worksheets**. There are different types of Sheets: Worksheet – the sheet with the gridlines and cells. Chart – the sheet which contains a single chart.

1. 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 and R1C Reference Style

**In A1 reference style, you have column name as an alphabet and 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.