Advance Excel Assignment - 19

1. What are the data types used in VBA?

Data types in VBA are Byte, Boolean, Integer, Long, Single, Double, Currency, Decimal, Date, Object, and string.

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

A variable is defined as storage in the computer memory that store information to execute the VBA code. The data type can either be an integer, text, decimal, Boolean, etc., whereas the variable level can be either procedure level, module-level, or public scoop. Variables should be declared using [Dim](https://corporatefinanceinstitute.com/resources/excel/vba-variables-dim/), Private, Public, or Static statements.

When you don't declare the data type of the variable, then VBA treats it as a Variant data type, and it is bound to accept any type of data integer like an integer, string, workbook, etc. In the same program, the variant variables can accept string values, integer values, and any other type as well.

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

VBA range object is used to represent a range in a worksheet. A range can be a cell, a group of cells or even all cell in the sheet.

The Worksheet object is a member of the Worksheets collection. The Worksheets collection contains all the Worksheet objects in a workbook.

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

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|  | **Workbook** | **Worksheet** |
| **1.** | Workbook is an excel file containing many worksheets. | A worksheet has a single spreadsheet containing data. |
| **2.** | Workbook cannot be added within the worksheet. | Worksheets can be added in a workbook |
| **3.** | Workbooks are used to work in a professional environment. | Worksheet is preferred in a learning or educational setup. |

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

Unlike A1 which refers to columns followed by row number, R1C1 does the opposite: rows followed by columns.

Excel can also use the R1C1 reference style, in which both the rows and the columns on the worksheet are numbered. 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.