Excel Assignment - 17

1. What are modules in VBA and describe in detail the importance of creating a module?

   VBA module is **a ". bcf" extension file that holds the code in the visual basic editor**. Each module has its own code window where you can write. You can insert a new module, delete, backup, and import it.

   Importance of creating a module: Code Modules allow us to store regular macros (sub procedures) and functions (User Defined Functions, UDFs). This is the typical place we start writing and storing our macros

2. What is Class Module and what is the difference between a Class Module and a Module?
   Class module in VBA can be defined as the module that helps to create your own objects with your own properties and methods like worksheets and range objectives of excel. In simple terms with the help VBA class module, we can create objects with own properties.
   Difference between module and class module:
   The main difference between classes and modules is that classes can be instantiated as objects while standard modules cannot.

3. What are Procedures? What is a Function Procedure and a Property Procedure?
   A procedure tells the application how to perform a specific task. Use procedures to divide complex code tasks into more manageable units. To create a procedure by writing code. Open the module for which you want to write the procedure. You can create a Sub, Function, or Property procedure.
   Function Procedure: A Function procedure is a series of Visual Basic statements enclosed by the Function and End Function statements. The Function procedure performs a task and then returns control to the calling code. When it returns control, it also returns a value to the calling code.
   Each time the procedure is called, its statements run, starting with the first executable statement after the Function statement and ending with the first End Function, Exit Function, or Return statement encountered.
   You can define a Function procedure in a module, class, or structure. It is Public by default, which means you can call it from anywhere in your application that has access to the module, class, or structure in which you defined it.
   A Function procedure can take arguments, such as constants, variables, or

expressions, which are passed to it by the calling code.

Property Procedure: A property procedure is a series of Visual Basic statements that allow a programmer to create and manipulate custom properties.
Property procedures can be used to create read-only properties for forms, standard modules, and class modules. Property procedures should be used instead of Public variables in code that must be executed when the property value is set.

4. What are Procedures? What is a Function Procedure and a Property Procedure?
   Same as question 3

5. What is a sub procedure and what are all the parts of a sub procedure and when are they used?
   A Sub procedure is a series of Visual Basic statements enclosed by the Sub and End Sub statements that performs actions but doesn't return a value. A Sub procedure can take arguments, such as constants, variables, or expressions that are passed by a calling procedure.
   A sub procedure can take two forms, i.e., private and public. The modifiers "private" and "public" allows users to use the subs differently. The private sub procedure can only be used in the current module. The public sub allows users to use the procedure in all modules present in the workbook.

6. How do you add comments in a VBA code? How do you add multiple lines of comments in a VBA code?
   Type an **APOSTROPHE** using your keyboard key and then write a single line comment.
   Commenting a block of code or multiple lines in VBA
   Go to View-Toolbars-Customise > Select the Command tab > Select the Edit Category on the left > Drag the "Comment Block" and "Uncomment Block" icons onto your toolbar.

7. How do you add comments in a VBA code? How do you add multiple lines of comments in a VBA code?
   Same as question 6