Advance Excel Assignment 17

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

In Excel VBA, there are four main types of modules:
- Standard Code Modules, which contain custom macros and functions,
- Workbook And Sheet Code Modules, which contain event procedures for the workbook, and worksheets and chart sheets,
- User Forms, which contain code for the controls on a UserForm object,
- Class Modules, which contain Property Let, Get, and Set procedures for Objects that we create.

2. What is Class Module and what is the difference between a Class Module and a Module?
Ans:- **A Module** store procedures and functions which can be either Private or Public (the default) and can be accessed either from within that module only (Private) or from anywhere in the project (Public). Modules are also used to store variables, constants and declarations that will need to be accessed from anywhere in the project.

Class modules allow us to create our own objects which can have their own properties and methods like any other object (range, worksheet, Excel, chart, blah, blah).

3. What are Procedures? What is a Function Procedure and a Property Procedure?
Ans:-
Procedure is a block of Visual Basic statements enclosed by a declaration statement (Function, Sub, Operator, Get, Set) and a matching End declaration. All executable statements in Visual Basic must be within some procedure.

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.

Property procedure is a series of Visual Basic statements that manipulate a custom property on a module, class, or structure. Property procedures are also known as property accessors.

4. What is a sub procedure and what are all the parts of a sub procedure and when are they used?
Ans:- **Sub procedure:-** is a series of Visual Basic statements enclosed by the Sub and End Sub statements. The Sub procedure performs a task and then returns control to the calling code, but it does not return a value to the calling code.

Each time the procedure is called, its statements are executed, starting with the first executable statement after the Sub statement and ending with the first End Sub, Exit Sub, or Return statement encountered.
A Sub procedure can take arguments, such as constants, variables, or expressions, which are passed to it by the calling code.

5. How do you add comments in a VBA code? How do you add multiple lines of comments in a VBA code?
Ans:-
Adding Comments in VBA Code:-
We can add Comments in a VBA Code by the simplest way by place an **apostrophe** in front of the text you wish to turn into non-executable code, and the remaining text in that line will turn into a comment.

Adding Multiline Comments in VBA Code:-
There could be a situation where we need to enter a comment in multiple lines, like a block of the comments. for this every line of comment needs to start with an apostrophe, so if we want to add multiple lines of comments every line should have an APOSTROPHE. The easiest way is to select all the lines and then use the comment button from the toolbar or you can also add an APOSTROPHE at the starting of each line.