Excel Assignment - 17

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

   A module is the fundamental synaptic unit of VBA source code. The physical representation of a module is implementation dependent but logically a VBA module is a sequence of Unicode characters that conform to the VBA language grammars. A module consists of two parts: a module header and a module body.

   Importance of creating a module
   - **Automates repetitive and routine tasks:** It is the obvious benefit of learning VBA in a macro training program and macro excel training programs. VBA uses Microsoft office; therefore, you can use it across other Microsoft Office applications. By learning VBA, a process such as receiving emails in Outlook, generating and sending a responding email, processing data in Excel, and even copy and paste work becomes easy.
   - **Accessibility to others:** n the corporate world, accessibility to information is a crucial element in spreading information. With VBA, other users do not have to install anything provided you write a script for everyone in the department. VBA can also allow you to add user-friendly variables that other users can modify to a certain degree. All in all, there is quick access to information from other users.
   - **Reduces the formulas burden used in Excel reports:** When it comes to presenting data to non-professionals, you should consider hiding some of the long formulas as the presentation may be difficult for them to understand. Taking a macro training program and macro excel training program training on excel macro VBA, you'll learn how to keep the formula coding part and make the report easy to understand.
   - **Reduces the turnaround time:** People working in the finance department are always under pressure to submit back their reports. It's usually a tedious task for them and which under stressful conditions may lead to inaccurate reports. VBA removes this

burden and makes it easy to prepare reports and templates within a short time.

- **Protects workbooks and hides sheets:** In some of your workbooks, you may be interested in hiding some of the worksheets that contain confidential or sensitive information. By taking a macro training program and macro excel training program on excel macro-VBA, you'll learn how to protect your workbooks as well as hide your worksheets. You will also learn how to enhance the confidentiality of sensitive data.

2. What is Class Module and what is the difference between a Class Module and a Module?

A class module is a group of code that allows you to create object and utilise them in your application.
Difference between a class module and a module is modules are collection of methods and constants. They cannot generate instances. Classes may generate instances (objects), and have pre instances state (instance variable).

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.

Function Procedure: It is a series of Visual basic statement enclosed by the function and End function statement. A function procedure is also similar to a sub procedure but a function can also return a value.

Property Procedure: A 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?

A sub procedure is a series of visual basic statements enclosed by the Sub and End Sub statements that perform action 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.

5. How do you add comments in a VBA code? How do you add multiple lines of comments in a VBA code?

To add a comment in VBA, simply add an apostrophe sign before the line you want to be marked as a comment.

The easiest way to add multiple line comment is to select all the lines and then use the comment button from the toolbar or you can also add APOSTROPHE at the starting of each line. The moment you click the comment button it will convert all the lines to a multi-line comment block.