

## Excel Assignment - 17

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

Ans: VBA module is to store the VBA code that you have input in VBE(Visual Basic Editor).

There are three types of Modules in VBA:

1. Standard module: The majority of your code will be placed in this type of module. A macro is saved in a standard module when it is recorded. When you establish a general procedure that will be applied throughout the workbook, it is usually placed in a standard module.
2. Object modules: These modules contain the code that is specific to that particular workbook or spreadsheet. The majority of the code in these modules is referred to as EVENTS. Whenever a workbook is either opened or closed, an event can occur.
3. Class modules: This module is utilized to generate objects during execution. Advanced VBA programmers use class modules.

Importance of Creating module:

- Structure of the VBA programming language is very simple with regards to possible code.
- VBA online support system is extensive, responsive, and context-sensitive.
- VBA is primarily an embedded, interactive development environment ("IDE") rather than a language.
- The VBA IDE is highly advance to support Rapid Application Development ("RAD"). Graphical user interfaces are especially easy to develop and connect handler functions provided by the application.
- VBA is a component integration language that conforms to Microsoft's Component Object Model ("COM").
- COM components can be written in different languages by using integrated VBA.

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

Ans: Class module is utilized to generate objects during execution. Advanced VBA programmers use this class modules.

Difference between a Class Module and a Module:

You use built-in procedure, properties, methods, etc. in a **Module**. You might also utilize the attributes of your own method or procedure here. So, to summarize, a standard module is for writing code utilizing a process, properties, method, etc.

You can develop your own procedure, properties method, etc. in the **Class Module**. The same is true of creation. You can utilize the procedure, or properties function in this case, in a standard module once creating it.

3. What are Procedures? What is a Function Procedure and a Property Procedure?

Ans: Procedures are the group of statements that are contained within a given declaration and its end declaration.

There are two types of procedures:

- Sub-procedures: It is a group of statements that perform the specific tasks but a sub-procedure will not return the result. It is main used to divide a large program into small parts so that maintaining the code become easier.
- Function procedure: It is a program that has a set of statements that are performed and the result is returned. Functions are basically used when there is a need for certain tasks to be performed repeatedly.

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5. What is a sub procedure and what are all the parts of a sub procedure and when are they used?

Ans: Sub-procedures: It is a group of statements that perform the specific tasks but a sub-procedure will not return the result. It is main used to divide a large program into small parts so that maintaining the code become easier.

Mainly, There are three parts of Sub procedure:

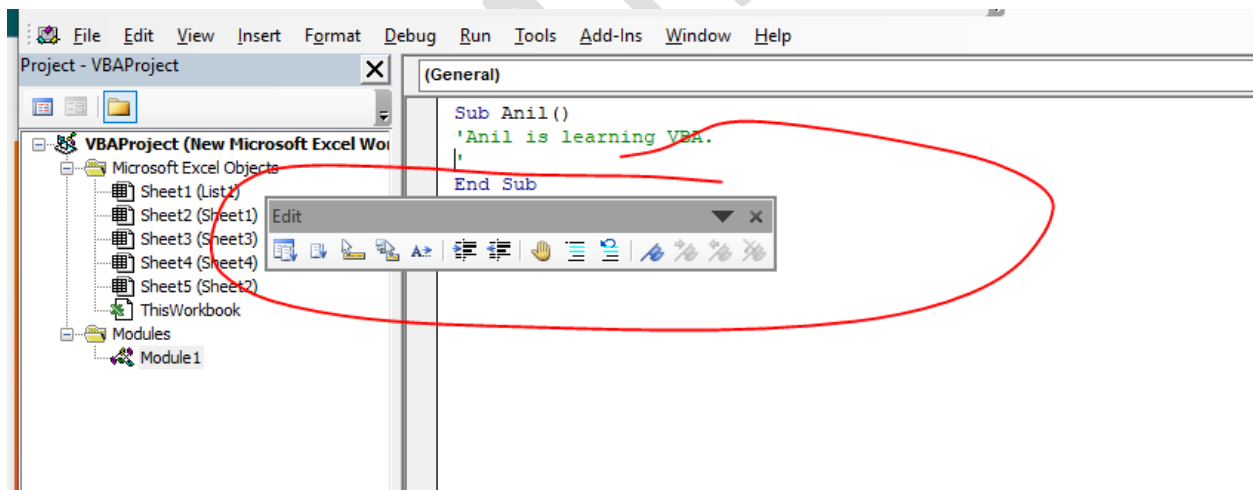
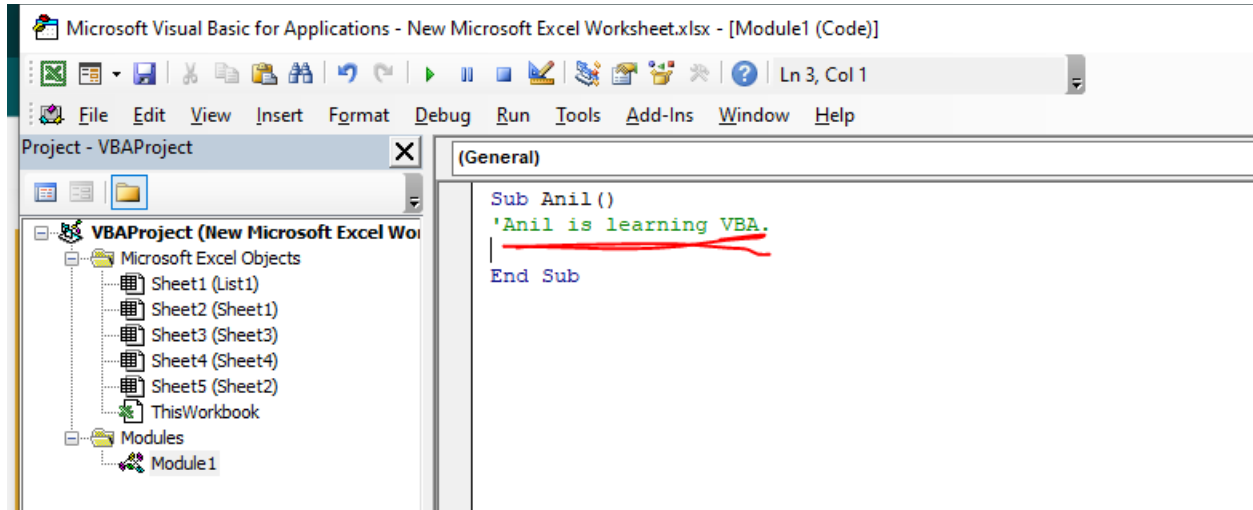
1. **Declaration statement** where we declare sub procedure, it is paired with End sub statement. All code statements must be written in these two statements.
2. **Arguments** is directly related to parameter list in the Sub Name and code must be execute where information needs to be passed.
3. **Exit Sub/End Sub** is similar to the exit function, it is used the end a sub procedure or a function.

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

Ans: To add comment in a VBA code steps are as follow:

Excel **Developer** Option -> Visual Basic Editor -> Tools (under Menu bar) -> Macros

Here, Once Macros created then input Apostrophe (') then enter the comment which will result in green font like mentioned below screenshot.

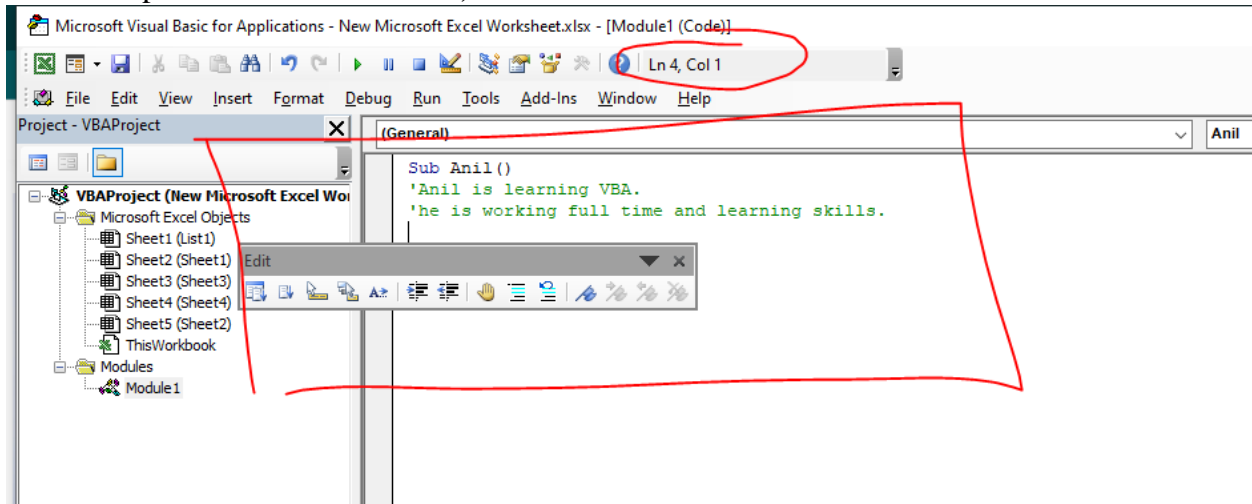


For Multiple Lines comment

Right click on Tool bar, then click on Edit

This marked screen will pop-up.

We have option of **comment block**, click on it



This is how, we can make it multiple line comment in VBA.

We can make edit and formation of the comment under tool bar edit.