**Excel Assignment - 17**

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

A VBA module is used to store any VBA code that you have written in the VBE (Visual Basic Editor).

**Standard modules** – most of your code will go into this type of module. When you record a macro, it gets put into a standard module.    When we write a general procedure to be used throughout our workbook, it also normally goes into a standard module. **Object modules** – these types of modules hold the code the is unique to that individual workbook or worksheet. Most of the code in these types of modules are known as EVENTS.   An event can occur when a workbook is opened or closed for example, or when a sheet is clicked (the Click Event), The module can also contain code that is written by ourself and used by the events.  The module behind a custom form that we create is also an Object module. **Class modules** – this module is used to create objects at run time. Class module are used by Advanced VBA programmers.

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

**Class modules** – this module is used to create objects at run time. Class module are used by Advanced VBA programmers. The modules are contained within a VBA Project and when the file is saved – be it an Excel workbook, Word document or Access database, the module or modules are saved within that file – that file is essentially the parent application of the module.

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

A property procedure is a series of Visual Basic [statements](https://learn.microsoft.com/en-us/office/vba/language/glossary/vbe-glossary#statement) that allow a programmer to create and manipulate custom properties.

A [Function procedure](https://www.automateexcel.com/vba/function/) returns a value.  This value may be a single value, an array, a range of cells or an object.  Functions usually perform some type of calculation.   Functions in Excel (UDFs) can be used with the Function Wizard.

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

If we have recorded a macro in Excel or Word, our macro will be put into a Standard module and will be put into a sub procedure. The majority of procedures written are Sub procedures.

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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?

We have recorded a macro in Excel or Word, our macro will be put into a Standard module and will be put into a sub procedure. The macro recorder can only record sub procedures. They perform actions such as formatting a table, creating a pivot table, or changing the view settings of your active window. The majority of procedures written are Sub procedures.  All macros are Subprocedures.

A sub procedure begins with a Sub statement and ends with an End Sub statement. When entering a sub procedure, you only need to type “Sub” followed by the procedure name (no spaces). Then press enter and the VBA Editor will add the parenthesis and End Sub statement.

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

VBA has the simplest way to convert a line of code into a comment. We will simply need to 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. To make this option visible go to View – Toolbars – and tick the Edit option.

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