

## Excel Assignment - 18

### 1. What are comments and what is the importance if commenting in any code?

**Ans.** In programming, comments are lines of text that are added to the source code of a program to explain the purpose of the code, provide additional information, or to temporarily disable a section of code. Comments are not executed by the computer and do not affect the behavior of the program.

### 2. What is Call Statement and when do you use this statement?

**Ans.** To compile your VBA code, follow these steps:

- Open the VBA editor by pressing Alt + F11.
- In the editor, select the module or project that you want to compile.
- Click on the Debug menu and select Compile <ProjectName> (where ProjectName is the name of your VBA project).
- The compiler will scan your code and check for errors. If there are any errors, they will be displayed in the editor. You can then go back and fix the errors before attempting to run the code again.

Some of the problems that you might face when you don't compile your code include > Syntax errors, runtime errors, Performance issues.

### 3. What are hot keys in VBA? How can you create your own hot keys?

**Ans.** Hotkeys in VBA are keyboard shortcuts that can be used to execute specific commands or run macros in the VBA editor. By default, the VBA editor has several built-in hotkeys that can be used to perform common tasks, such as opening a new module, commenting out a line of code, or executing a macro. To create your own hotkeys in VBA, follow these steps:

Open the VBA editor by pressing Alt + F11.

In the editor, click on the Tools menu and select Customize Keyboard.

In the Customize Keyboard dialog box, select the macro or command that you want to assign a hotkey to.

In the Press new shortcut key field, type the keyboard shortcut that you want to use for the command.

If the shortcut is already in use by another command, you will be prompted to choose a different shortcut. Once you have selected a unique shortcut, click on the Assign button to assign the hotkey to the command.

Click on the Close button to close the Customize Keyboard dialog box.

### 5. Create a macro and shortcut key to find the square root of the following numbers 665, 89, 72, 86, 48, 32, 569, 7521

**Ans.** Sub SquareRoots()

'Find the square root of each of the given numbers

MsgBox "Square root of 665 is " & Sqr(665)

MsgBox "Square root of 89 is " & Sqr(89)

MsgBox "Square root of 72 is " & Sqr(72)

MsgBox "Square root of 86 is " & Sqr(86)

MsgBox "Square root of 48 is " & Sqr(48)

MsgBox "Square root of 32 is " & Sqr(32)

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MsgBox "Square root of 569 is " & Sqr(569)
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MsgBox "Square root of 7521 is " & Sqr(7521)
```

```
End Sub
```

To assign a shortcut key to the macro, click on the Tools menu and select Customize Keyboard.

In the Categories list, select Macros.

In the Commands list, select the SquareRoots macro that you just created.

In the Press new shortcut key field, type the keyboard shortcut that you want to use for the macro (for example, Ctrl + Shift + S).

Click on the Assign button to assign the hotkey to the macro.

## **6. What are the shortcut keys used to:**

**a. Run the code** > press F5 or click on the Run button in the toolbar.

**b. Step into the code** > press F8 or click on the Step Into button in the toolbar.

**c. Step out of code** > press Shift + F8 or click on the Step Out button in the toolbar.

**d. Reset the code** > press Ctrl + Break or click on the Reset button in the toolbar.