

**Excel Assignment - 18**

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

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

3. How do you compile a code in VBA? What are some of the problem that you might face when you don’t compile a code?

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

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

6. What are the shortcut keys used to

a. Run the code

b. Step into the code

c. Step out of code

1. Comments and Importance of Commenting in Code:

- Comments are explanatory notes added to the code to provide clarity and understanding to anyone reading the code.

- Importance of Commenting:

- Enhances Readability: Comments make the code easier to understand for others and for the future self.

- Documenting Logic: Comments help in documenting the purpose, functionality, and logic of the code.

- Debugging Assistance: Comments can provide insights into the code's intended behavior, aiding in debugging and troubleshooting.

- Collaboration: Comments facilitate collaboration among team members by providing context and guidance in understanding the code.

2. Call Statement:

- The Call statement in VBA is used to call a procedure or function.

- It's typically used when you want to explicitly call another procedure or function from within your code.

- While it used to be required in earlier versions of VBA, it's optional in newer versions, and you can call procedures or functions directly without using the Call keyword.

3. Compiling a Code in VBA:

- To compile code in VBA, open the VBA Editor, go to the Debug menu, and select "Compile VBAProject".

- Problems faced when not compiling code:

- Syntax Errors: Uncorrected syntax errors will cause the code to malfunction or fail to run.

- Performance Issues: Uncompiled code might run slower than compiled code.

- Undetected Errors: Certain errors might go undetected until the code is compiled, leading to runtime errors during execution.

4. Hot Keys in VBA:

- Hot keys in VBA are keyboard shortcuts used to perform specific actions within the VBA Editor.

- You can create custom hot keys by assigning macros to specific key combinations.

- To create a custom hot key, go to the Macros dialog box, select the macro you want to assign a shortcut to, click on "Options", and then specify a shortcut key in the box provided.

5. Macro for Finding Square Root with Shortcut Key:

- Here's a sample macro to find the square root of numbers with a shortcut key:

```vba

Sub FindSquareRoot()

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

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

' Add more numbers as needed

End Sub

```

To assign a shortcut key:

- Go to the Developer tab, click on Macros, select the macro, click on Options, and then specify a shortcut key.

6. Shortcut Keys in VBA:

a. To run the code: F5

b. To step into the code: F8

c. To step out of the code: Shift + F8

d. To reset the code: Ctrl + Break