Excel Assignment - 18

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

Comments provide explanations, clarifications, and context about the code, making it easier for others (and yourself) to understand the purpose and functionality of different parts of the codebase.

- Code Understanding: They explain why certain decisions were made and how specific portions of code work.
- Code Maintenance: Comments help other developers (and you) understand the code when you revisit it after a while. This makes maintenance and updates smoother and reduces the chances of introducing errors.
- Debugging: When issues arise, comments can provide insights into the intended behaviour of the code. This helps in identifying bugs and debugging more efficiently.

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

Call statement is used to transfer control to a function or sub or dynamic link library procedure. The call keyword will be called when the procedure is being called. It used when call keyword is called when it doesn't start with the identifier. If the procedure returns a value, the call statement discards it.

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

The code can be compiled in VBA by clicking Debug menu and compile VBA project. For example, if we are implementing the if statement, if we miss End if in the end, they don't complete the statement. So it occurs the error and during the compilation we might get the error.

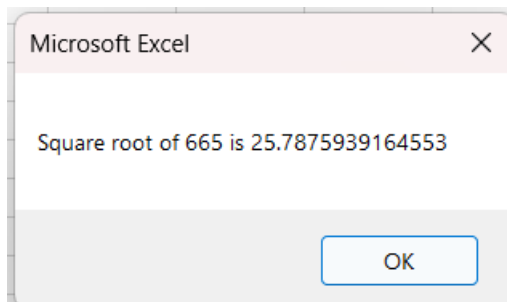**4. What are hot keys in VBA? How can you create your own hot keys?**

In VBA (Visual Basic for Applications), hotkeys, also known as keyboard shortcuts, are combinations of keyboard keys that trigger specific actions or commands within a VBA macro or program. They allow users to perform tasks quickly without having to navigate through menus or click buttons. You can create your own hotkeys to execute VBA macros by using the Application.OnKey method.

- Open the VBA Editor: In the application where you want to use the hotkey (e.g., Microsoft Excel, Word, etc.), press Alt + F11 to open the VBA Editor.
- Insert a New Module: In the VBA Editor, click on "Insert" in the top menu and choose "Module" to insert a new code module.
- Write Your Macro: In the code module, write the VBA macro that you want to execute when the hotkey is pressed.
- Assign a Hotkey: To assign a hotkey to your macro, use the Application.OnKey method

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

```
Sub CalculateSquareRoot()
    Dim numbers As Variant
    Dim num As Variant
    Dim result As Double

    numbers = Array(665, 89, 72, 86, 48, 32, 569, 7521)

    For Each num In numbers
        result = Sqr(num)
        MsgBox "Square root of " & num & " is " & result
    Next num
End Sub
```

Microsoft Excel ✕

Square root of 665 is 25.7875939164553

OK

6. What are the shortcut keys used to

      a. Run the code   - F5

      b. Step into the code   - F8

      c. Step out of code   - Ctrl + shift + F8

      d. Reset the code   - Alt + R + R