

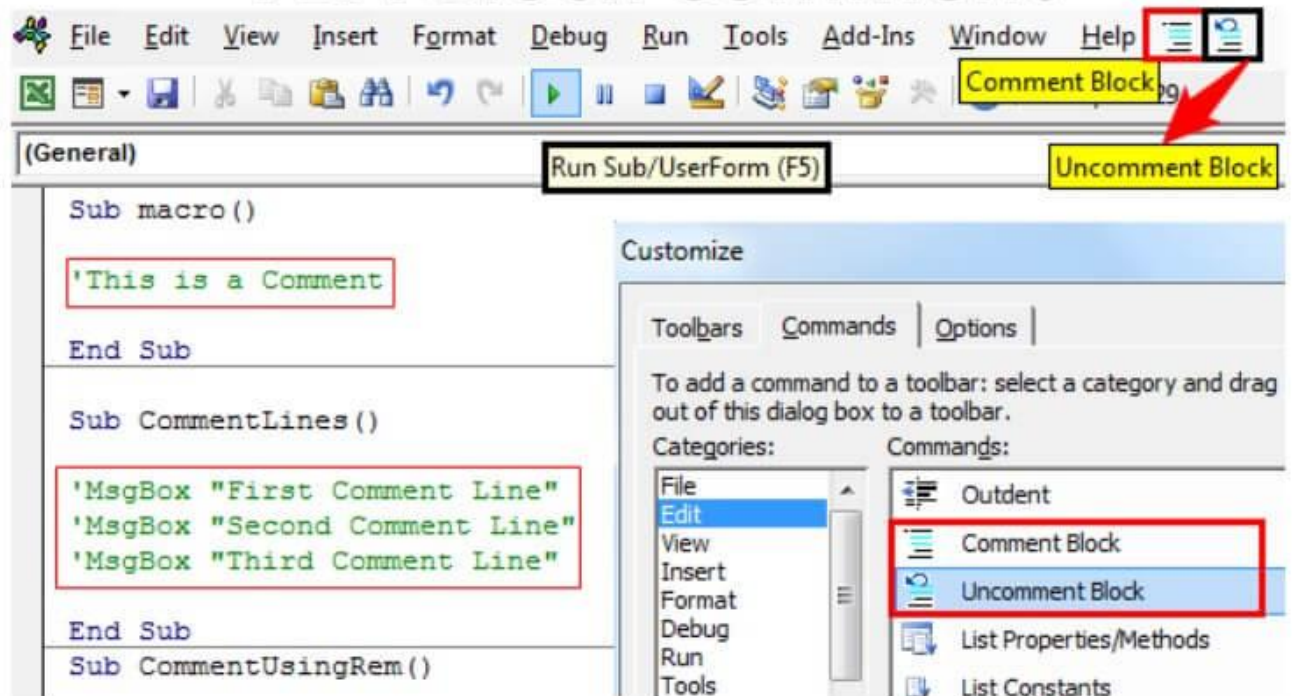
Excel Assignment - 18

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

Ans- In VBA (Visual Basic for Applications), comments are used to provide explanations, document your code, or temporarily disable specific lines of code. Comments are ignored by the VBA compiler and do not affect the execution of the program.

There are 2 types of comment- single line comment and multi line comment.

VBA Block Comment



Importance of Comments

a) Code explanation- through additional information

b)Code Maintenance and Debugging- to resolve error in code

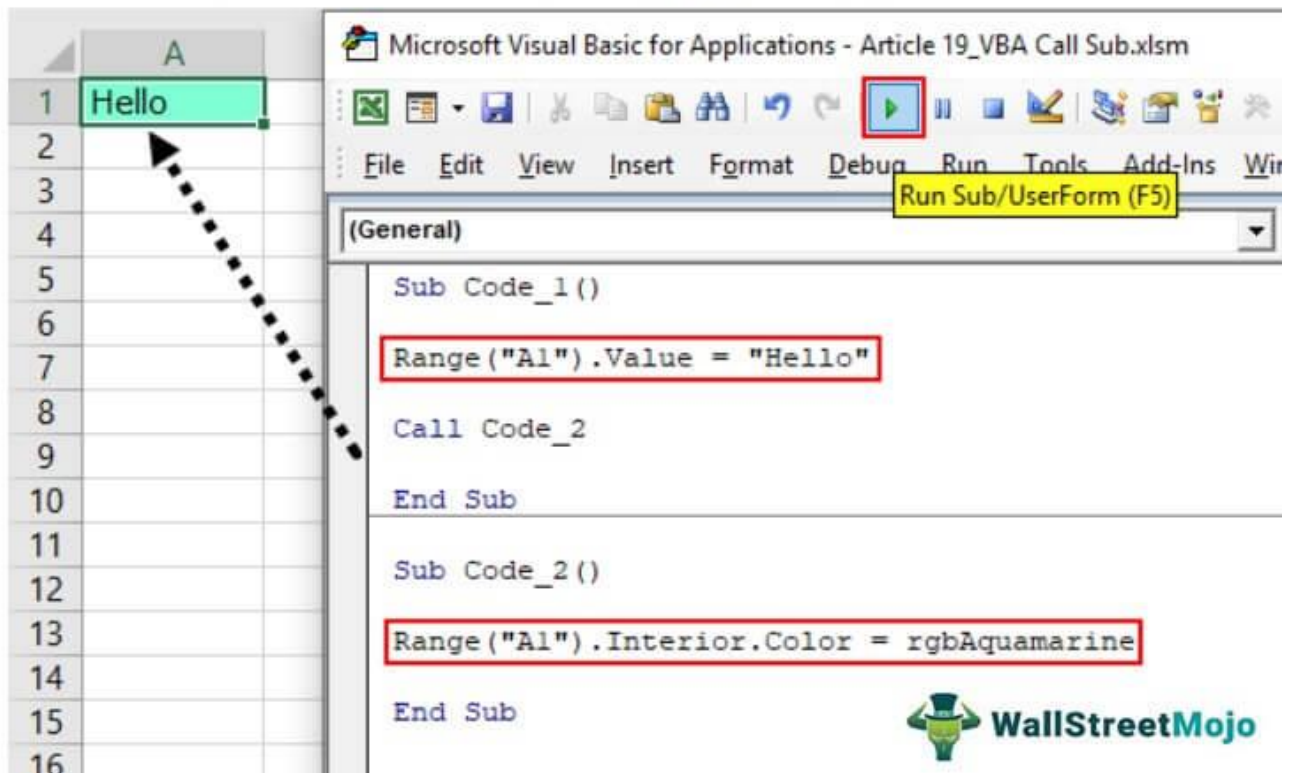
c)Collaboration and teamwork- comments let team mate to better understand code

d)Compliance and documentation purpose

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

Ans- The Call statement is used to invoke a Sub procedure. It is used to execute a specific Sub procedure or a subroutine. The Call statement is optional and can be omitted when calling a Sub procedure.

VBA "Call Sub"



The screenshot displays the Microsoft Visual Basic for Applications (VBA) editor window. The title bar reads "Microsoft Visual Basic for Applications - Article 19_VBA Call Sub.xlsm". The menu bar includes File, Edit, View, Insert, Format, Debug, Run, Tools, Add-Ins, and Windows. The toolbar features various icons, with the "Run Sub/UserForm (F5)" button highlighted by a yellow box. The VBA code is shown in the editor window, with the "General" tab selected. The code consists of two subroutines: Sub Code_1() and Sub Code_2(). Sub Code_1() contains the line `Range("A1").Value = "Hello"`, which is highlighted with a red box. Sub Code_2() contains the line `Range("A1").Interior.Color = rgbAquamarine`, also highlighted with a red box. A dashed arrow points from the "Run" button in the toolbar to the "Hello" text in cell A1 of the Excel spreadsheet. The WallStreetMojo logo is visible in the bottom right corner.

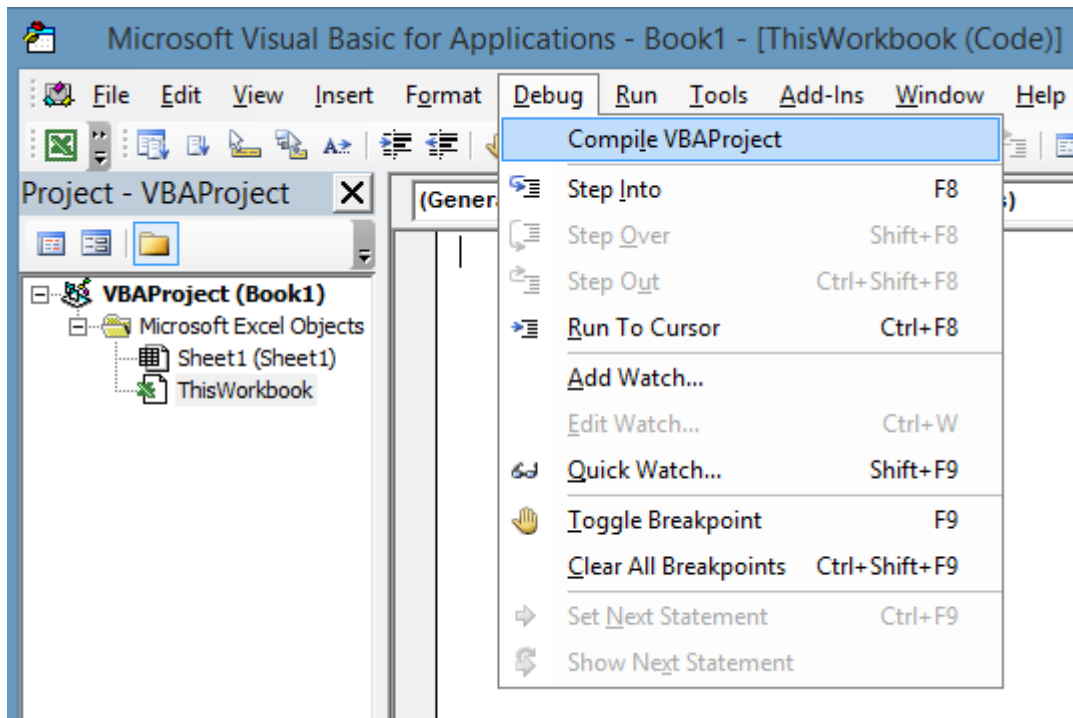
```
Sub Code_1()  
    Range("A1").Value = "Hello"  
    Call Code_2  
End Sub  
  
Sub Code_2()  
    Range("A1").Interior.Color = rgbAquamarine  
End Sub
```

Usage of Call Statement

- a)Invoke Sub Procedure- to allow certain codes to run automatically
- b)Passing arguments ByRef- arguments to sub procedure can be called using ByRef keyword.
- c)Calling Objects Method- useful when working with external objects

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?

Ans- Code is compiled and executed at runtime within the VBA environment.



Problems faced when code is not compiled

a) Syntax errors-without compiling these errors would remain undetected, causing runtime error

b)Type Mismatches-they won't be caught until code is compiled or executed.

c)Undeclared variables- when code is not compiled

d)Performance issues- as code is not optimized without compilation

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

Ans- Hotkeys, also known as keyboard shortcuts, in VBA (Visual Basic for Applications) allow you to quickly execute specific actions or commands by pressing a combination of keys on your keyboard.

There are several in built hot keys that perform common actions.

33 Useful VBA Shortcut Keys

User Form	
Alt+O+A+L	Align Left
Alt+O+A+C	Align Center
Alt+O+A+R	Align Right
Alt+O+A+T	Align Top
Alt+O+A+M	Align Middle
Alt+O+A+B	Align Bottom
Alt+O+M+W	Make Same Width
Alt+O+M+H	Make Same Height
Alt+O+M+B	Make Same Height and Width both
Alt+O+H+E	Horizontal Spacing - Equal
Alt+O+H+I	Horizontal Spacing - Increase
Alt+O+H+D	Horizontal Spacing - Decrease
Alt+O+H+R	Horizontal Spacing - Remove
Alt+O+V+E	Vertical Spacing - Equal
Alt+O+V+I	Vertical Spacing - Increase
Alt+O+V+D	Vertical Spacing - Decrease
Alt+O+V+R	Vertical Spacing - Remove
Alt+O+C+H	Center In the form - Horizontally
Alt+O+C+V	Center In the form - Vertically

33 Useful VBA Shortcut Keys

Text Box-1

Text Box-2

Text Box-3

Text Box-4

Text Box-5

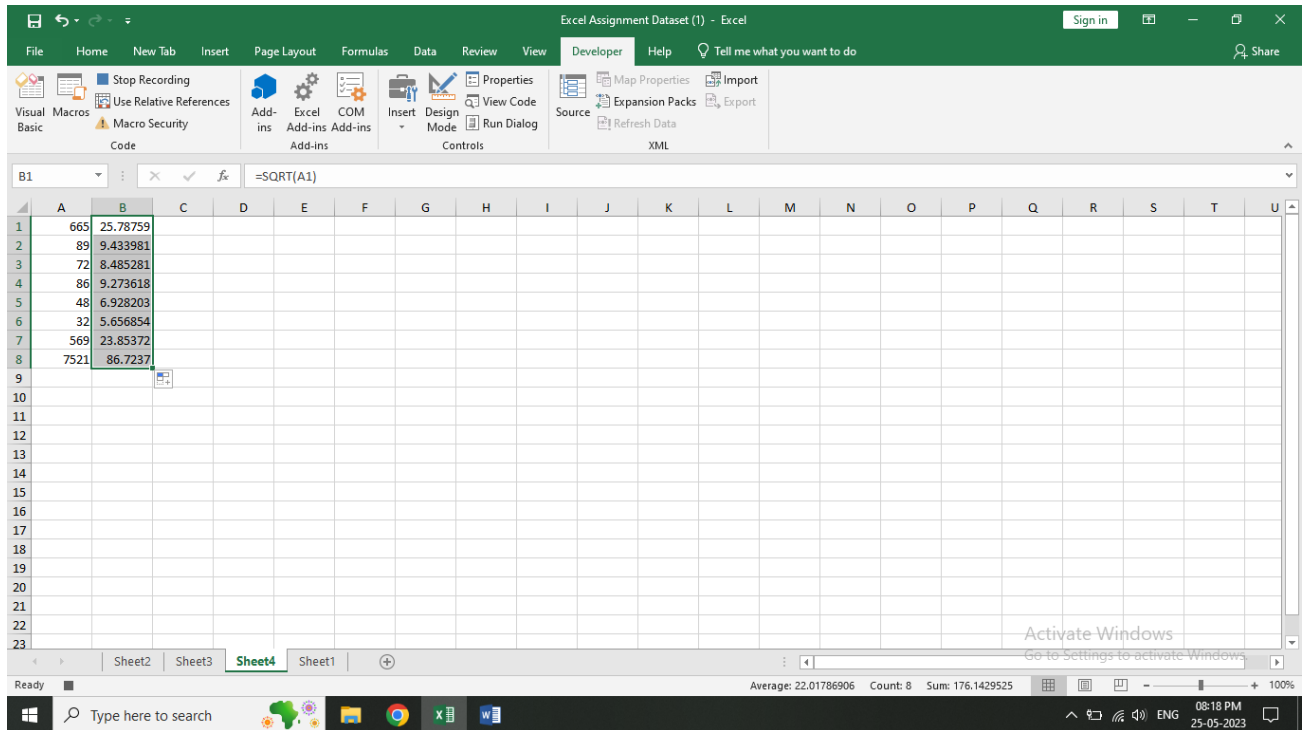
Text Box-6

Creation of own hot Keys

>Developer Tab>Visual Basic>Insert>Module>Save VBA project>Close VBA editor

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-



6. What are the shortcut keys used to

- a. Run the code
- b. Step into the code
- c. Step out of code
- d. Reset the code

Ans- Short cut keys

a)Run the Code- F5

b)Step into the code- F8

c)Step out of code- Shift+F8

d)Reset the code- Ctrl+Break

