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

code?

Comments are lines of text in the source code of a program that are ignored by the compiler or interpreter.

They are used to provide explanations, annotations, and documentation for the code.

The purpose of comments in code is to make it easier for others (or yourself) to understand the logic, structure, and functionality of the code

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

The **Call** statement is a feature in Visual Basic for Applications (VBA), which is used to call or execute a subroutine or function in a VBA macro.

Subroutines and functions allow you to encapsulate a specific piece of logic into a reusable block of code, and the **Call** statement is used to execute that block of code.

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?

In Visual Basic for Applications (VBA), there is no separate compile step like there is in some other programming languages.

When you save a VBA macro, the code is automatically compiled into an executable form, and any syntax errors will be reported immediately.

Some of the problems faced

Syntax error, logic error, performance issue, Security vulnerabilities, Compatibility issues

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

Hot keys are keyboard shortcuts that allow you to quickly access specific commands or functions in an application.

Visual Basic for Applications (VBA), you can create your own hot keys by using the **Application.OnKey** method.

The **Application.OnKey** method allows you to assign a specific macro to a specific keyboard shortcut. You can use this method to create hot keys for macros that you use frequently, or to make it easier to access specific functionality within your VBA macros.

Here is an example of using the **Application.OnKey** method to create a hot key in VBA:

Application.OnKey "^p", "MyMacro"

In this example, the **Application.OnKey** method is used to assign the macro named **MyMacro** to the keyboard shortcut **Ctrl** + **P**. When this keyboard shortcut is pressed, the **MyMacro** macro will be executed

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 FindSquareRoots()

Dim numbers As Variant

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

Dim number As Variant

For Each number In numbers

Debug.Print "The square root of " & number & " is " & Sqr(number)

Next number

End Sub

6. What are the shortcut keys used to

a. Run the code : **F5**

b. Step into the code **F8**

c. Step out of code Shift + **F8**

d. Reset the code **Ctrl + Break**