

2. Difference between Method Declaration and Method Body

- Method Declaration: Difference is that it has a name and return
- Method Body: The only difference is that it contains the code and runs only when the method is called (return a=b;)

3. Keyword to Change Access Level of a Method

- Keywords: public, private, are used for changing a method access level as well as protected.

4. Another Word for Describing the Access Level of a Method

- Visibility

5. Scope of Each Variable in the Code

- Variable1: used in the main method
- Variable 2: used only inside a loop inside the method1
- Variable 3: only usable in method1
- Variable4: only used in the loop inside the method 1.

6. Method Declarations

- `Public static int getVowels(string input)`
- `Public static int extractDigit(int NUM`
- `Public statics String insertString(string,int index)`

7. Method Distinction

a) The compiler tells methods apart by their name and parameters.

- Compilers displays the difference between names and parameters

b) Yes, two methods can have the same name if they have different parameters (this is called method overloading).

- Yes, methods can have identical names but have to use different parameters

8. Return Statement

- Return, gives the value back from a method.
- Only one value can be sent back when using return statement
- Method that has a value like (int) that returns, but a method that doesn't have a return is classified as a void.

9. Error in the Code

- (NUM) is classified incorrectly . the variable called (doSomething()); but don't store any sort of values in the return statement. But should be declared like (NUM= doSomething());.