

Question 2:

The method declaration contains the name of the method, the access level, the return type, and any parameters, the method body, is the code within the method that runs when the method is called.

Question 3:

There are 4 different keywords that change the access level, these being: public, private, protected, and default. Private methods can only be accessed by the class it was declared in. Public methods are available to every class, in any package. Protected methods are available to all classes in the package, as well as subclasses in other packages. Default methods are available to any class within the same package.

Question 4:

The access level of a method is also known as its visibility.

Question 5:

Variables var1 and var2 scopes are limited to the main method of the class. Variables var3 and var4 scopes are limited to method1. A variables scope defines where it can be used and modified in code, so, var1 and var2 can only be accessed in the main method, while var3 and var4 can only be accessed in method1.

Question 6:

- A) `public static int getVowels(String[] abc) {`
`}`
- B) `public static int extractDigit(int number) {`
`}`
- C) `public static String insertString(String[] sentence, int num) {`
`}`

Question 7:

Aside from the method's name, the compiler relies on the parameters to help distinguish one method from another, using the amount of parameters, their type, and what order they are listed in. 2 methods can have the same name, both with a string and int parameter, but if one of them arranges the parameters opposite to the other, the compiler can distinguish them.

Question 8:

- A) The return statement is used to send a value back to the calling statement, presumably being saved in a variable so it can be used within the calling method.
- B) The return statement can only be used to send one value back to the calling statement
- C) The difference is in the final keyword before the methods name, if the method will not return a value, this keyword will be "void", if the method will return a value, the keyword

will be the type of variable it will be returning, such as "int", "double", "boolean" or "String".

Question 9:

The main method of the code is outside of the class body.