Methods Homework

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**What is method in Java?**

A method is a block of code that performs a specific task.Methods are functions or behaviors of the class.There are void and return types of methods.

**What kind of methods we have in Java and what are their differences?**

**returnType** - It specifies what type of value a method returns. For example, if a method has an int return type then it returns an integer value.  
If the method does not return a value, its return type is void.

**methodName** - It is an identifier  that is used to refer to the method in a program, could be any name but should be meaningful to increase readability of your code.

**method body**- It includes the programming statements that are used to perform some tasks. The method body is enclosed inside the curly braces { }

method parameters – Arguments that we pass inside the method parentheses

A Java method may or may not return a value.We use the **return statement** to return any value for return type methods

EXAMPLE: public int add(int a, int b){

return a + b;}

Other methods are known as **void methods** and these methods do not return any value

EXAMPLE: public void printHello(){

System.out.println(“Hello”);}

**What is method overloading and how to achieve it?**

In Java, two or more methods  may have the same name. This is allowed if they differ in parameters (different number of parameters, different types of parameters, or both). These methods are called overloaded methods and this feature is called method overloading.

(Multiple methods can have the same name if the number and/or type of parameters are different)

**What is parameter in Java methods?**

A method parameter is a value accepted by the method. A method can have any number of parameters.Parameters act as variables inside the method.

**What are the advantages of using methods in Java?**

The main advantage is code reusability. We can write a method once and use it multiple times. We do not have to rewrite the entire code each time.Methods make code more readable and easier to debug.