**LABTASK2**

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**Question1:**

Overloading of main method is possible or not?

**Answer:**

No overloading in the Main method in java is not possible. The main method is the entry point of a java program and it must have a specific signature. Java only allows one main method per class with signature to serve as the program entry point. You cannot create multiple main method with different parameter lists overload it

**Question2:**

What is returned by the constructor, and how you can identify it from its declaration?

**Answer**

In programing languages include java constructor do not return value explicitly instead constructor are responsible for initializing an object’s state. When you create a new instance of a class using the New key words the constructor is called to set up the object and it does not have a return type.

Declaration Of Constructor:

Same Name as the class

No return type specified

**Question3:**

Can we create a program without method? How many main method are allowed in the program?

**Answer**

In java we can create a program without defining additional methods but we always need at least one main method because it serves as the entry point of the program without main method the JVM java virtual machine won’t know where to start the execution of your program.

**Question 4:**

What are the six ways to use this keyword?

**Answer:**

1. To refer to the instance Variable
2. To call Another Constructor
3. To return the current Instance
4. To pass the current object as an Argument
5. To create anonymous
6. To pass the current Object a constructor

**Question 5:**

Prove that multiple inheritance is not supported in java?

**Answer**

Java does not support multiple inheritance for classes. Multiple inheritance refers to a features where a class can inherit attributes and behaviors from more than one parent class. In java this limitation is imposed for few reasons

1. Ambiguity
2. Diamond Problem
3. Complexity