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**Experiment :04**

**Experiment 4**

**Aim:** Write a program to find whether the given number is Armstrong or not using command line argument.

**Theory :**

**Command line argument :**

The java command-line argument is an argument i.e. passed at the time of running the java program.

The arguments passed from the console can be received in the java program and it can be used as an input.

So, it provides a convenient way to check the behavior of the program for the different values. You can pass **N** (1,2,3 and so on) numbers of arguments from the command prompt.

To access the command-line arguments inside a Java program is quite easy. They are stored as strings in the String array passed to main( ).

**Conclusion:** Thus studied command line arguments in java.

**Questions:**

Q.1 Explain static initialization block in java

ANS. The following describes the Static Initialization Block in Java:

1. A Static Initialization Block in Java is a block that runs before the main( ) method in Java.
2. Java does not care if this block is written after the main( ) method or before the main( ) method, it will be executed before the main method( ) regardless.
3. In the entire program, the Static Initialization Block will execute only one time.
4. There can be many Static Initialization Blocks in a specific class.
5. If we have many Static Initialization Blocks in Java then they are called in a manner in the order they are written in the program.
6. This block will not return anything.
7. Checked exceptions cannot be thrown.
8. We cannot use the "this" keyword since it does not have any instance.

Q.2 Explain instance initialization block in java.

* Ans In a Java program, operations can be performed on methods, constructors and initialization blocks. Instance Initialization Blocks or IIB are used to initialize instance variables . So firstly, constructor is invoked and the java compiler copies the instance initializer block in the constructor after the first statement super(). They run each time when object of the class is created.   
   Initialization blocks are executed whenever the class is initialized and before constructors are invoked.
* They are typically placed above the constructors within braces.
* It is not at all necessary to include them in your classes.

