**Command Line Argument Program :**

Command.java

```
void main(String [] args)
{
    IO.println(args[0]);
}
```

Java Command.java (Compilation)

Java Command Scott Smith

output is : Scott because Scott index position is 0 (zero)

Command.java

```
void main(String [] args)
{
    IO.println(args[1]);
}
```

Java Command.java (Compilation process)

Java Command Scott Smith dan

Output is : Smith because Smith index position is 1.

Note : We should always re-compile our source code, if we make any changes in .java file

The following program explains that the advantage of command line argument is "Single time change, many times of times execution".

Command.java

```
void main(String [] args)
{
    IO.println(args[0]);
}
```

Java Command.java (Compilation process)
Java Command 12.89 98
Output is : 12

Java Command 12.67 89.90 90.01
Output is : 12.67

Java Command A B C D
Output is : a

Java Command true false
Output is : true

Command.java

```
void main(String [] args)
{
    IO.println(args[0]);
}
```

Java Command.java (Compilation process)
Java Command
**(Not passing any value at runtime)**

Runtime Error : java.lang.ArrayIndexOutOfBoundsException

**How to print the full name by using command line argument :**

FullName.java

```
void main(String [] args)
{
    IO.println(args[0]);
}
```

Java FullName.java
Java FullName "Virat Kohli"

Output : Virat Kohli

WAP to add two numbers by using command line Argument :

Add.java

```
void main(String [] a)
{
    IO.println(a[0] + a[1]);
}
```

Java Add.java
Java Add 100 200
Output is : 100200 (Here a is an array variable of type String)

How to convert a String value into an int value in Java.

* There is a predefined class in Java called Integer available in java.lang (library) package. This Integer class has provided a predefined **static method called parseInt(String s) through which we can automatically convert a String value into an int value.**

Note : While calling a method in Java, We must need to concentrate on 4 factors :

a) Must know the class name (In which class method is belonging)
b) Method name (Which method is to be run exactly)
c) Parameter list (Ordered list of any type of variable, what is the data type)
d) return type of the method

Add.java

//WAP to add two numbers by using command line argument

```
void main(String [a)
{
  //The first value from command line argument storing to variable a */
  String a = a[0];

  //The 2nd value from command line argument storing to variable b */
  String b = a[1];

  //Converting the String into integer
  int num1 = Integer.parseInt(a);
    int num2 = Integer.parseInt(b);

    IO.println("Sum is :"+(num1+num2));

}
```

Java Add.java
Java Add 12 24
Sum is : 36

WAP to find out the square of a number :

Square.java

```
void main(String [] args)
{
  int x = Integer.parseInt(args[0]);

  IO.println("Square is :"+(x*x));

}
```

Java Square.java
Java Square 4
Output is : 4

a) How to convert a String into float type :
float var = **Float.parseFloat(s);** //s is string type

a) How to convert a String into double type :
double var = **Double.parseDouble(s);** //s is string type

WAP to find out the area of the circle by using command line argument :

```
void main(String [] args)
{
    //Must keyword to declare constant
    final double PI = 3.14;

    //String to double
    double radius = Double.parseDouble(args[0]);

    double area = PI * radius * radius;

    IO.println("Area of Circle is :"+area);

    //comma is reqd but not + operator
    System.out.print("Area of Circle is :%.2f",area);
}
```