

## 1<sup>st</sup> Program:

```
Main.java
1 public class Main
2 {
3     public static void main(String[] args) {
4         System.out.println("Hello World");
5     }
6 }
7
```

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```
Hello World

...Program finished with exit code 0
Press ENTER to exit console.
```

## 2<sup>nd</sup> Program:

```
Main.java
1
2 public class Main {
3     public static void main(String[] args)
4     {
5         int radius;
6         double pi = 3.142, area;
7         radius = 100;
8         area = pi * radius * radius;
9         System.out.println("Area of circle is :" + area);
10    }
11 }
12
13
```

input

Area of circle is :31420.0

...Program finished with exit code 0  
Press ENTER to exit console.

### 3<sup>rd</sup> program

```
Main.java
1 - class Main {
2 -     public static void main(String[] args) {
3         int a = 10, b = 5, c=2, v;
4         //Arithmetic Operators
5         System.out.println("Arithmetic Operators");
6         System.out.println("a + b = " + (a + b));
7         System.out.println("a - b = " + (a - b));
8         System.out.println("a * b = " + (a * b));
9         System.out.println("a / b = " + (a / b));
10        System.out.println("a % b = " + (a % b));
11        //Assignment Operators
12        System.out.println("Assignment Operators");
13        v = a;
14        System.out.println("var using =: " + v);
15        v += a;
16        System.out.println("var using +=: " + v);
17        v *= a;
18        System.out.println("var using *=: " + v);
19        //Relational Operators
20        System.out.println("Relational Operators");
21        System.out.println(a == b);
22        System.out.println(a != b);
23        System.out.println(a > b);
24        System.out.println(a < b);
25        System.out.println(a >= b);
26        System.out.println(a <= b);
27        //Logical Operators
28        System.out.println("Logical Operators");
29        System.out.println((a > b) && (a < c));
30        System.out.println((a > b) || (a < c));
31        System.out.println(!(a == b));
32    }
33 }
```

### Output:

```
Arithmetic Operators
a + b = 15
a - b = 5
a * b = 50
a / b = 2
a % b = 0
Assignment Operators
var using =: 10
var using +=: 20
var using *=: 200
Relational Operators
false
true
true
false
true
false
Logical Operators
false
true
true

...Program finished with exit code 0
Press ENTER to exit console.
```

## 4<sup>th</sup> Program:

```
Main.java
1 class Main {
2     public static void main(String[] args) {
3         String first = "Syed";
4         String second = "Shabeeb";
5         String third = "Nibras";
6         System.out.println(first);
7         System.out.println(second);
8         System.out.println(third);
9     }
10 }
```

Syed  
Shabeeb  
Nibras

...Program finished with exit code 0  
Press ENTER to exit console.