

## 23-07-2024 (JAVA)

### EX:1

Main.java	Output
<pre>1- public class MathExample { 2-     public static void main(String[] args) { 3         double piValue = Math.PI; 4         System.out.println("Value of PI: " + piValue); 5 6         double number = 25; 7         double sqrt = Math.sqrt(number); 8         System.out.println("Square root of " + number + " is: " + sqrt); 9     } 10 } 11</pre>	<pre>java -cp /tmp/sqRhZvJTop/MathExample Value of PI: 3.141592653589793 Square root of 25.0 is: 5.0  === Code Execution Successful ===</pre>

### EX:2

Main.java	Output
<pre>1- public class MathExpressions { 2-     public static void main(String[] args) { 3         double result1 = -Math.abs(-1.23); 4         double result2 = Math.pow(3, 2); 5         double result3 = Math.sqrt(121.0) - Math.sqrt(256.0); 6         int result4 = Math.abs(Math.min(-3, -5)); 7 8         System.out.println("Result 1: " + result1); 9         System.out.println("Result 2: " + result2); 10        System.out.println("Result 3: " + result3); 11        System.out.println("Result 4: " + result4); 12    } 13 } 14</pre>	<pre>java -cp /tmp/ZYGfMqS97x/MathExpressions Result 1: -1.23 Result 2: 9.0 Result 3: -5.0 Result 4: 5  === Code Execution Successful ===</pre>

### EX:3

Main.java	Output
<pre>1- public class ComputeBMI { 2-     public static void main(String[] args) { 3         double weight = 70.0; 4         double height = 1.75; 5         double bmi = weight / (height * height); 6         double roundedBMI = Math.round(bmi * 100.0) / 100.0; 7         System.out.println("BMI: " + roundedBMI); 8     } 9 } 10</pre>	<pre>java -cp /tmp/WEPSv4f17Y/ComputeBMI BMI: 22.86  === Code Execution Successful ===</pre>