

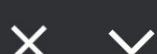
Arithmet...

Output



```
1 // Program 1: Arithmetic Operators
2 public class ArithmeticOperators {
3     public static void main(String[]
4             args) {
5         int a = 20;
6         int b = 8;
7         System.out.println("a = " + a +
8             ", b = " + b);
9         System.out.println("Addition: " +
10            + (a + b));
11        System.out.println("Subtraction
12            : " + (a - b));
13        System.out.println
14            ("Multiplication: " + (a *
15                b));
16        System.out.println("Division: " +
17            + (a / b));
18        System.out.println("Modulus: " +
19            + (a % b));
20    }
21 }
```

Run



Programiz

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Programiz PRO

Arithmet...

Output



a = 20, b = 8

Addition: 28

Subtraction: 12

Multiplication: 160

Division: 2

Modulus: 4

==== Code Execution Successful ===

```
1 // Program 2: Relational and Logical  
    Operators  
2 public class RelationalLogicalOperators  
{  
3     public static void main(String[]  
        args) {  
4         int x = 10;  
5         int y = 20;  
6  
7         // Relational operators  
8         System.out.println("x == y: " +  
9             (x == y));  
10        System.out.println("x != y: " +  
11            (x != y));  
12        System.out.println("x > y: " +  
13            (x > y));  
14        System.out.println("x < y: " +  
15            (x < y));  
16        System.out.println("x >= y: " +  
17            (x >= y));  
18        System.out.println("x <= y: " +  
19            (x <= y));  
20  
21         // Logical operators  
22         boolean condition1 = (x < y);  
23         boolean condition2 = (x > 5);  
24  
25         System.out.println("\nLogical  
26             AND (&&): " + (condition1  
27                 && condition2));  
28         System.out.println("Logical OR  
29             (||): " + (condition1 ||  
30                 condition2));  
31         System.out.println("Logical NOT  
32             (!): " + (!condition1));  
33     }  
34 }
```

Run

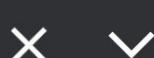


Relation...

Output



```
1 // Program 2: Relational and Logical  
     Operators  
2 public class RelationalLogicalOperators  
3 {  
4     public static void main(String[]  
5         args) {  
6         int x = 10;  
7         int y = 20;  
8         .....  
9         // Relational operators  
10        System.out.println("x == y: " +  
11            (x == y));  
12        System.out.println("x != y: " +  
13            (x != y));  
14        System.out.println("x > y: " +  
15            (x > y));  
16        System.out.println("x < y: " +  
17            (x < y));  
18        System.out.println("x >= y: " +  
19            (x >= y));  
20        System.out.println("x <= y: " +  
21            (x <= y));  
22        .....  
23        // Logical operators  
24        boolean condition1 = (x < y);  
25        boolean condition2 = (x > 5);  
26        .....  
27        System.out.println("\nLogical  
28            AND (&&): " + (cond Run  
29            && condition2));  
30        .....  
31    }  
32 }
```



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Relation...

Output

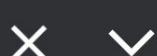


```
6
7         // Relational operators
8         System.out.println("x == y: " +
9             (x == y));
10        System.out.println("x != y: " +
11            (x != y));
12        System.out.println("x > y: " +
13            (x > y));
14        System.out.println("x < y: " +
15            (x < y));
16        System.out.println("x >= y: " +
17            (x >= y));
18        System.out.println("x <= y: " +
19            (x <= y));

20        // Logical operators
21        boolean condition1 = (x < y);
22        boolean condition2 = (x > 5);

23        System.out.println("\nLogical
24            AND (&&): " + (condition1
25                && condition2));
26        System.out.println("Logical OR
27            (||): " + (condition1 ||
28                condition2));
29        System.out.println("Logical NOT
30            (!): " + (!condition1));
31    }
32 }
```

Run

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Relation...

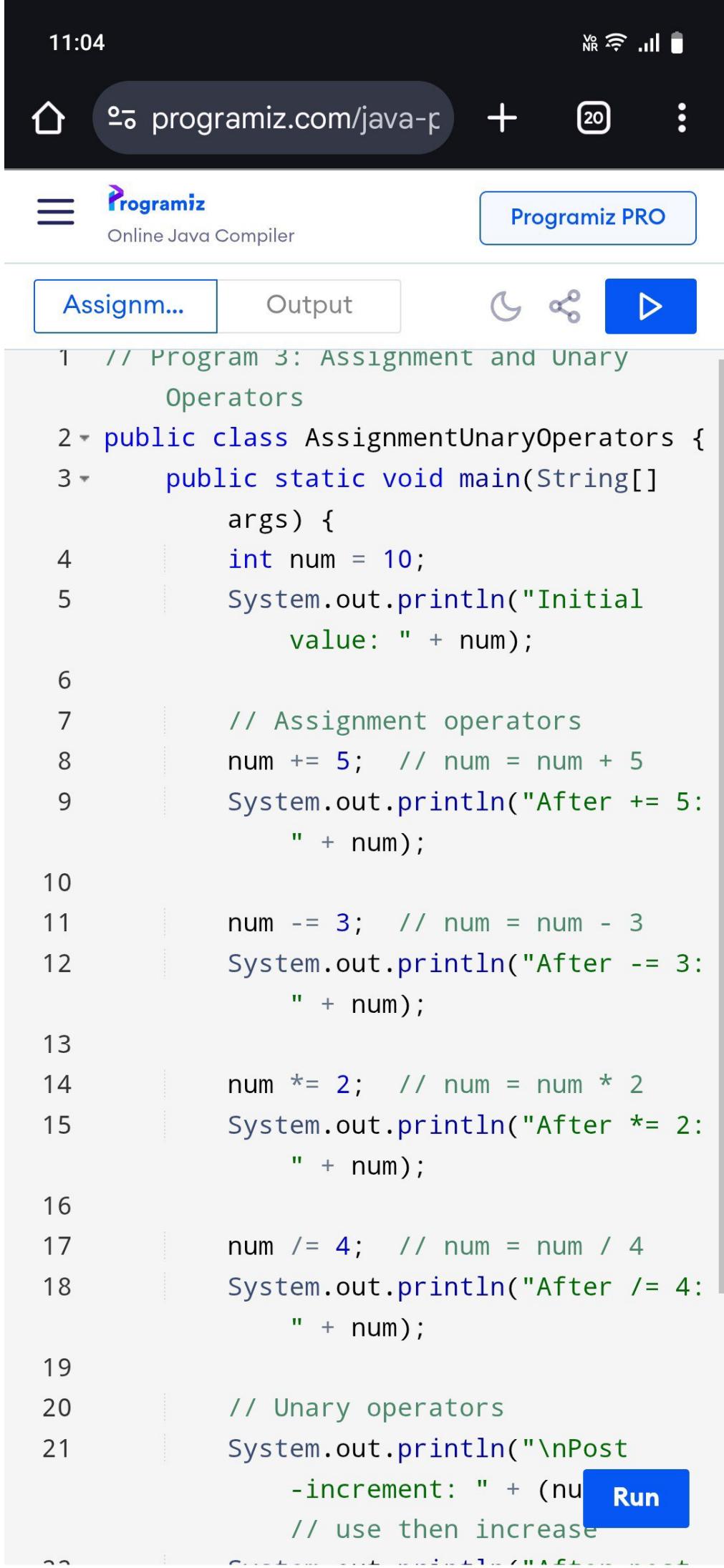
Output



```
x == y: false
x != y: true
x > y: false
x < y: true
x >= y: false
x <= y: true
```

```
Logical AND (&&): true
Logical OR (||): true
Logical NOT (!): false
```

==== Code Execution Successful ===





Assignm...

Output



```
8     num += 5; // num = num + 5
9     System.out.println("After += 5:
10    " + num);
11
12    num -= 3; // num = num - 3
13    System.out.println("After -= 3:
14    " + num);
15
16    num *= 2; // num = num * 2
17    System.out.println("After *= 2:
18    " + num);
19
20    // Unary operators
21    System.out.println("\nPost
22      -increment: " + (num++));
23      // use then increase
24    System.out.println("After post
25      -increment: " + num);
26
27    System.out.println("Pre
28      -increment: " + (++num));
29      // increase then use
30    System.out.println("Pre
31      -decrement: " + (--num));
32
33    }
34 }
```

Run



Assignm...

Output



Initial value: 10

After += 5: 15

After -= 3: 12

After *= 2: 24

After /= 4: 6

Post-increment: 6

After post-increment: 7

Pre-increment: 8

Pre-decrement: 7

==== Code Execution Successful ===