

JavaVersion control

Current File

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```
public class IfStatement { // 2310080053 - Sweshik Reddy.

    public static void main(String[] args) {
        int num1, num2; // Declaring num1, num2

        // Initializing num1, num2
        num1 = 10;
        num2 = 20;

        // If num1 is greater than num2
        if(num1 < num2) System.out.println("Num1 is less than Num2.");
        num1*=2; // Updating num1 value
        // If num1 equal to num2
        if(num1 == num2) System.out.println("Num1 is equal to Num2.");
        num1*=2; // Updating num1 value
        if(num1 > num2) System.out.println("Num1 is greater than Num2.");

        // This will not be printed
        if(num1 == num2) System.out.println("You won't see this.");
    }
}
```

RunIfStatement

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```
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:D:\IntelliJ IDEA 2024.1.4\lib\idea_rt.jar=49983:D:\IntelliJ IDEA 2024.1.4\bin" -Dfile.e
Num1 is less than Num2.
Num1 is equal to Num2.
Num1 is greater than Num2.

Process finished with exit code 0
```

Java> IfStatement21:2CRLFUTF-84 spaces

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ForLoop.java

1 public class ForLoop {  
2  
3 public static void main(String[] args) {  
4 for(int x=0; x<10; x++) {  
5 System.out.println("The value of x is: " + x);  
6 }  
7 }  
8 }  
9

RunForLoop

"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:D:\IntelliJ IDEA 2024.1.4\lib\idea\_rt.jar=50064:D:\IntelliJ IDEA 2024.1.4\bin" -Dfile.e  
The value of x is: 0  
The value of x is: 1  
The value of x is: 2  
The value of x is: 3  
The value of x is: 4  
The value of x is: 5  
The value of x is: 6  
The value of x is: 7  
The value of x is: 8  
The value of x is: 9  
  
Process finished with exit code 0

Java>ForLoop>main6:10CRLFUTF-84 spaces



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LightSpeed.java

1 public class LightSpeed {  
2 public static void main(String[] args) {  
3 int lightSpeed;  
4 long days, seconds, distance;  
5  
6 lightSpeed = 186000; // Approximate speed of light.  
7 days = 1000; // adjust the number of days.  
8  
9 seconds = days \* 24 \* 60 \* 60; // Time in seconds.  
10 distance = lightSpeed \* seconds; // Compute distance  
11  
12 System.out.println("In " + days + " days light will travel about " + distance + " miles." );  
13 }  
14 }  
15









RunLightSpeed

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"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:D:\IntelliJ IDEA 2024.1.4\lib\idea\_rt.jar=50111:D:\IntelliJ IDEA 2024.1.4\bin" -Dfile.e  
In 1000 days light will travel about 16070400000000 miles.  
  
Process finished with exit code 0


JavaLightSpeed

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#Statement.java ForLoop.java BlockTest.java LightSpeed.java DoubleExample.java x

1  public class DoubleExample {

2  public static void main(String[] args) {

3 double pi, radius, area;

4

5 radius = 10.8;

6 pi = 3.1416;

7 area = pi \* radius \* radius; // Computing area of Circle

8




9 System.out.println("The Area of circle is " + area);

10 }




11 }

12







Run DoubleExample x

"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:D:\IntelliJ IDEA 2024.1.4\lib\idea\_rt.jar=50140:D:\IntelliJ IDEA 2024.1.4\bin" -Dfile.e  
The Area of circle is 366.436224

Process finished with exit code 0

Java > DoubleExample > main

9:61 CRLF UTF-8 4 spaces

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⋮ 🔔 📄

📁 #Statement.java ForLoop.java BlockTest.java LightSpeed.java DoubleExample.java CharDemo.java ✕

1 ▶ public class CharDemo {  
2 ▶     public static void main(String[] args) {  
3         char ch1, ch2;  
4  
5         ch1 = 88; // Code for X  
6         ch2 = 'Y';  
7  
8         System.out.print("The value of Ch1 and Ch2 are: ");  
9         System.out.println(ch1 + " " + ch2);  
10     }  
11 }  
12

Run CharDemo ✕

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↑ "C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:D:\IntelliJ IDEA 2024.1.4\lib\idea\_rt.jar=50152:D:\IntelliJ IDEA 2024.1.4\bin" -Dfile.e  
↓ The value of Ch1 and Ch2 are: X Y  
📄  
📄 Process finished with exit code 0  
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Java > CharDemo > main 9:45 CRLF UTF-8 4 spaces 📄











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Scope.java

12Statement.javaForLoop.javaBlockTest.javaLightSpeed.javaDoubleExample.javaCharDemo.javaBootTest.javaDynInit.javaScope.java

```
1 public class Scope {
2     public static void main(String[] args) {
3         int x; // Known to all code within main
4         x = 10; // Initializing x=10
5
6         if (x == 10) { // True
7             int y = 20; // y is known to only the code within if block.
8
9             System.out.println("The value of x and y are " + x + " " + y);
10        }
11
12        // y = 100; //Error! y is not known here
13
14        //But still x is known here.
15        System.out.println("The value of x is " + x);
16    }
17 }
18
```

RunScope x

"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:D:\IntelliJ IDEA 2024.1.4\lib\idea\_rt.jar=50278:D:\IntelliJ IDEA 2024.1.4\bin" -Dfile.e  
The value of x and y are 10 20  
The value of x is 10  
Process finished with exit code 0

Java > Scope > main12:48CRLFUTF-84 spaces

JavaVersion control

Current File

Conversion.java

1 public class Conversion {

2 public static void main(String[] args) {

3 byte b;

4 int i = 257;

5 double d = 323.142;

6

7 System.out.println("\nConversion of int to byte : ");

8 b = (byte) i;

9 System.out.println("i = " + i + ", b = " + b);

10

11 System.out.println("\nConversion of double to int : ");

12 i = (int) d;

13 System.out.println("d = " + d + ", i = " + i);

14

15 System.out.println("\nConversion of double to byte : ");

16 b = (byte) d;

17 System.out.println("d = " + d + ", b = " + b);

RunConversion

C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:D:\IntelliJ IDEA 2024.1.4\lib\idea\_rt.jar=50297:D:\IntelliJ IDEA 2024.1.4\bin" -Dfile.e

Conversion of int to byte :  
i = 257, b = 1

Conversion of double to int :  
d = 323.142, i = 323

Conversion of double to byte :  
d = 323.142, b = 67

Process finished with exit code 0

Java > Conversion > main12:21CRLFUTF-84 spaces

JavaVersion control

Current File

ForLoop.javaBlockTest.javaLightSpeed.javaDoubleExample.javaCharDemo.javaBoolTest.javaDynInit.javaScope.javaConversion.javaPromote.java

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```
public class Promote {  
    public static void main(String[] args) {  
        byte b = 42;  
        char c = 'a';  
        short s = 1024;  
        int i = 50000;  
        float f = 5.67f;  
        double d = .1234;  
        double result = (f*b) + (i/c) - (d*s);  
        System.out.println((f*b) + " + " + (i/c) + " - " + (d*s));  
        System.out.println("Result = " + result);  
    }  
}
```

RunPromote

"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:D:\IntelliJ IDEA 2024.1.4\lib\idea\_rt.jar=50332:D:\IntelliJ IDEA 2024.1.4\bin" -Dfile.e  
238.14 + 515 - 126.3616  
Result = 626.7784146484375  
Process finished with exit code 0

JavaPromotemain

10:05CRLFUTF-84 spaces