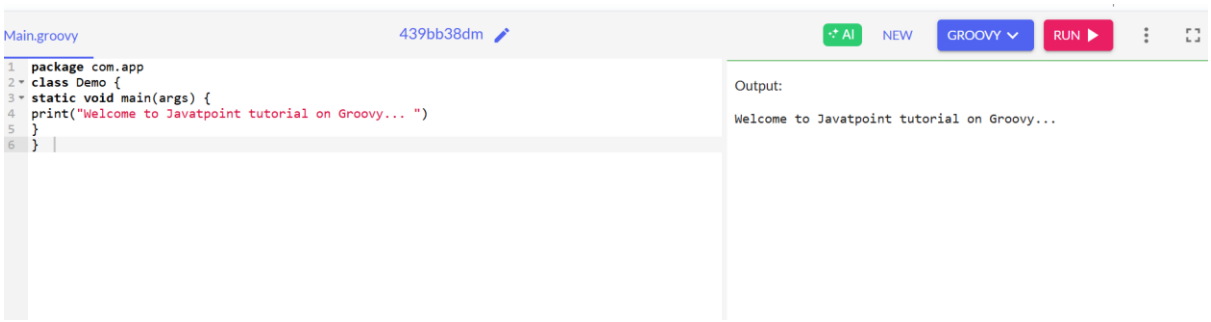
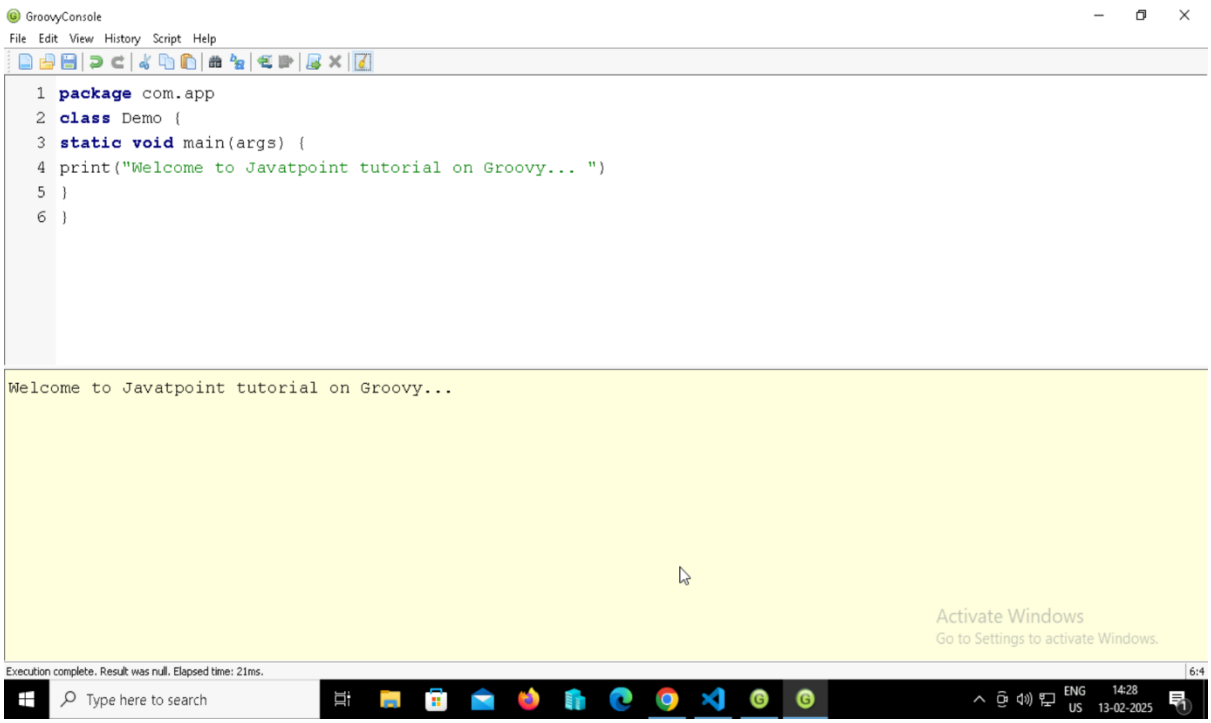
GROOVY PROGAMS ASSIGNMENT

First Groovy Program



Groovy basic syntax

Example programs



Main.groovy 439bb38dm AI NEW GROOVY RUN

```groovy
package com.app
class Demo {
// this is a single line comment
/*
*
* this is a
* multi-line comment
*/
static void main(args) {
print "Welcome to Javatpoint tutorial on Groovy... "
}
}
```

Output:

```
Welcome to Javatpoint tutorial on Groovy...
```

GROOVY OPERATORS

Groovy unary operator

GroovyConsole

File Edit View History Script Help

```groovy
package com.app
class GroovyOperatorsExample3 {
static void main(args) {
        int a = 10
        int c
        c = +a
        println "Unary plus = " + c
        c = -a
        println "Unary minus = " + c

        }
}
```

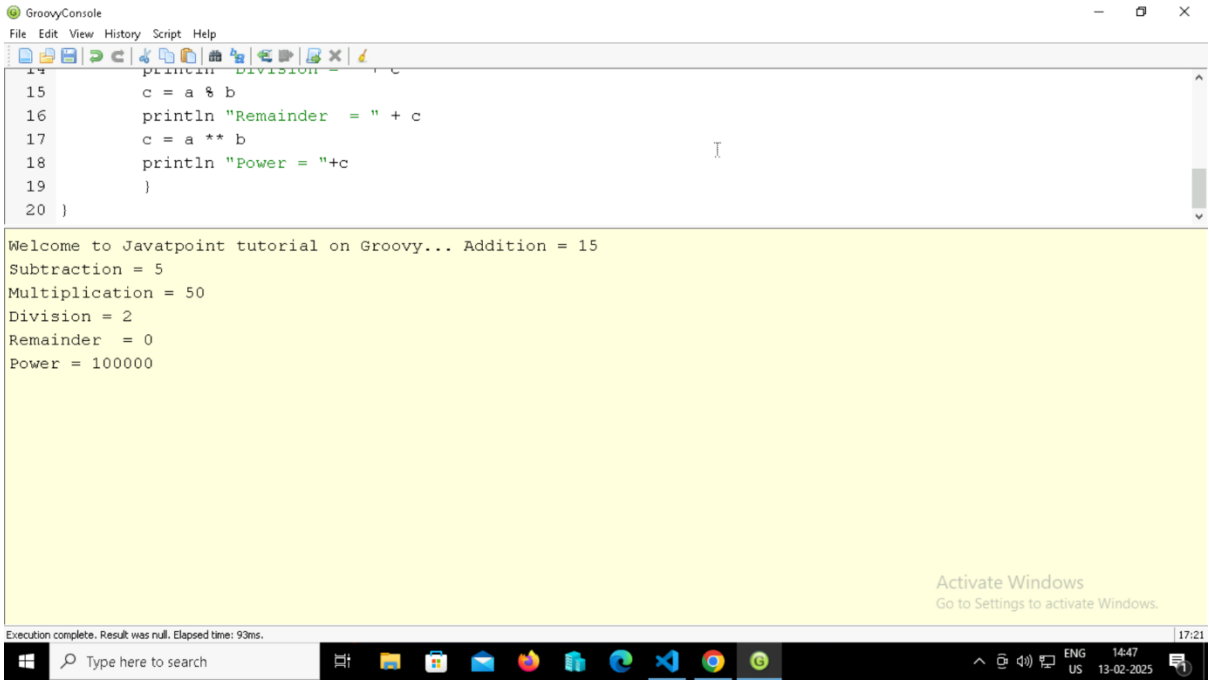
```
Unary plus = 10
Unary minus = -10
```

Activate Windows
Go to Settings to activate Windows.

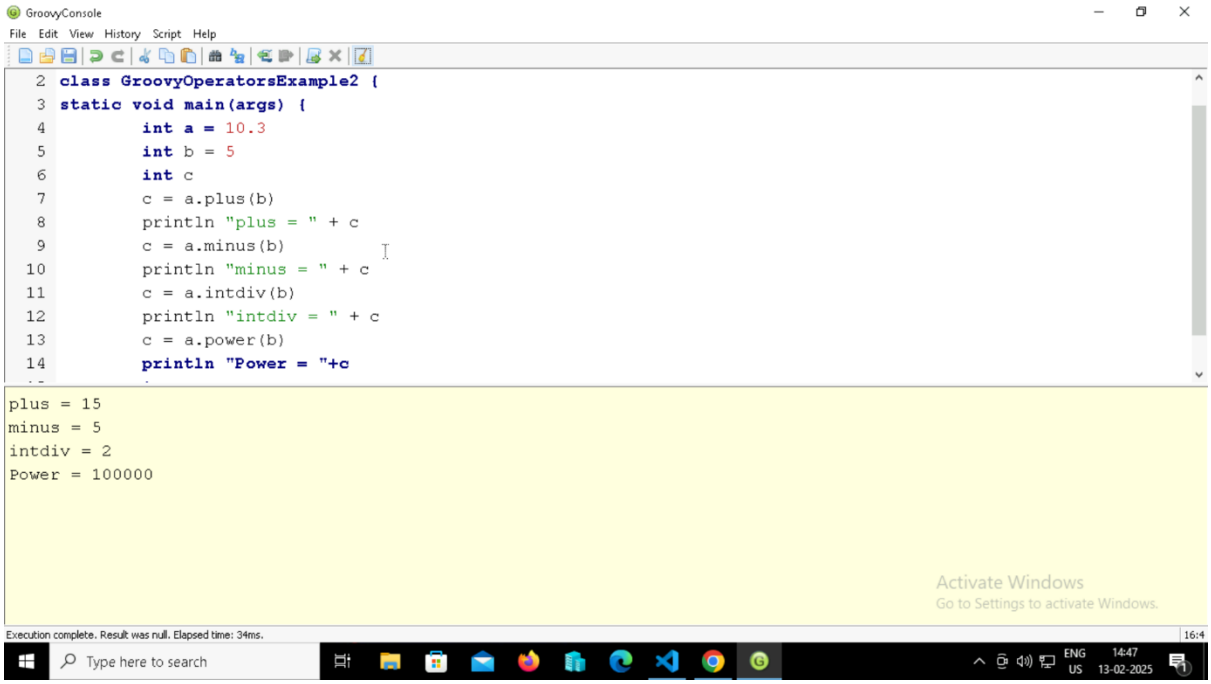
Execution complete. Result was null. Elapsed time: 31ms. 12:4

Type here to search
ENG US 14:48 13-02-2025

Groovy arthimetic operators



Groovy arthimetic operator example 2



Groovy unary operator 2

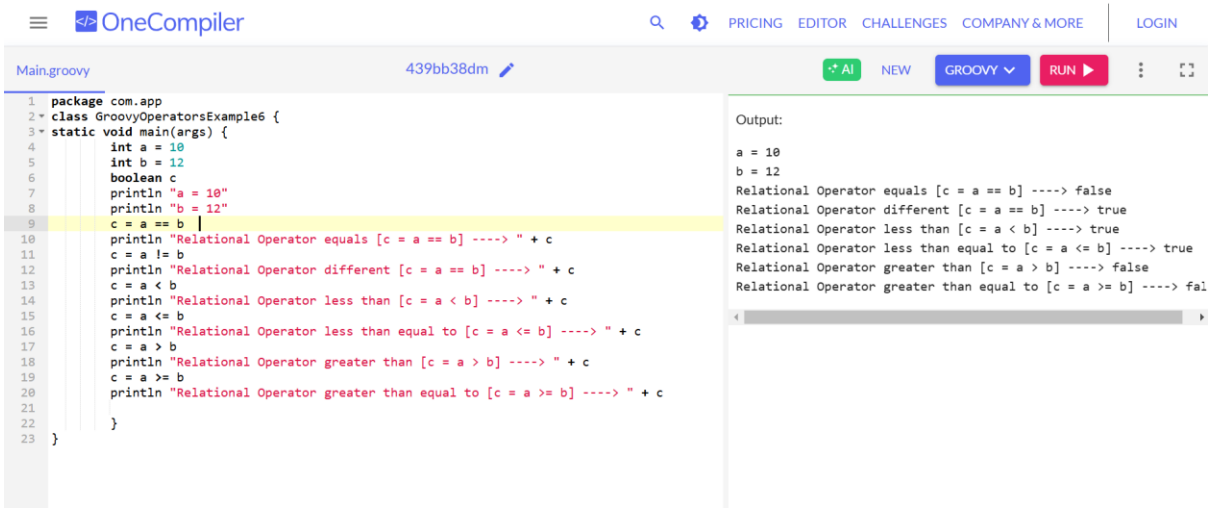
Groovy Assignment Operator

```groovy
package com.app
class GroovyOperatorsExample5 {
static void main(args) {
        int a = 10
        a+=3
        println "a+=3 ------> " + a
        a-=3
        println "a-=3 ------> " + a
        a*=3
        println "a*=3 ------> " + a
        a/=3
        println "a/=3 ------> " + a
        a%=3
        println "a%=3 ------> " + a
        a**=3
        println "a**=3 ------> " + a
        }
}
```

```
Output:

a+=3 ------> 13
a-=3 ------> 10
a*=3 ------> 30
a/=3 ------> 10
a%=3 ------> 1
a**=3 ------> 1
```

Relational operators



```groovy
package com.app
class GroovyOperatorsExample6 {
static void main(args) {
        int a = 10
        int b = 12
        boolean c
        println "a = 10"
        println "b = 12"
        c = a == b
        println "Relational Operator equals [c = a == b] ----> " + c
        c = a != b
        println "Relational Operator different [c = a == b] ----> " + c
        c = a < b
        println "Relational Operator less than [c = a < b] ----> " + c
        c = a <= b
        println "Relational Operator less than equal to [c = a <= b] ----> " + c
        c = a > b
        println "Relational Operator greater than [c = a > b] ----> " + c
        c = a >= b
        println "Relational Operator greater than equal to [c = a >= b] ----> " + c

        }
}
```

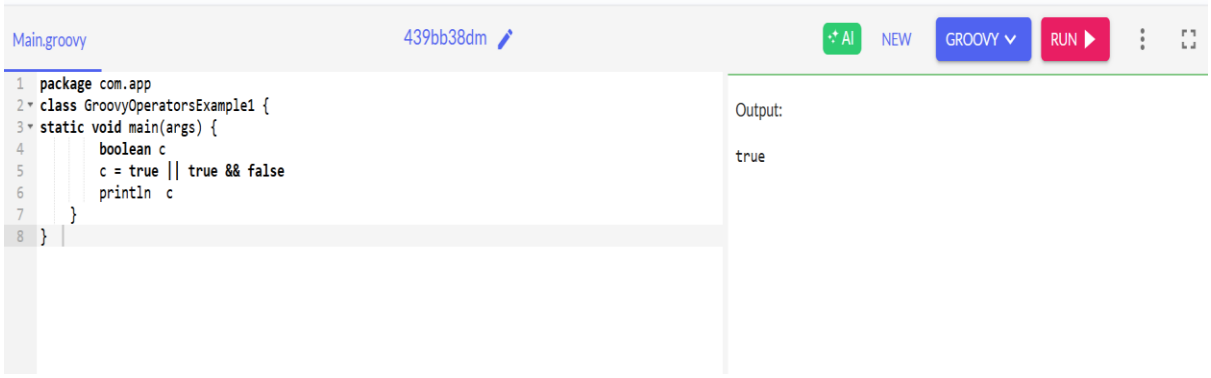
```
Output:

a = 10
b = 12
Relational Operator equals [c = a == b] ----> false
Relational Operator different [c = a == b] ----> true
Relational Operator less than [c = a < b] ----> true
Relational Operator less than equal to [c = a <= b] ----> true
Relational Operator greater than [c = a > b] ----> false
Relational Operator greater than equal to [c = a >= b] ----> fal
```

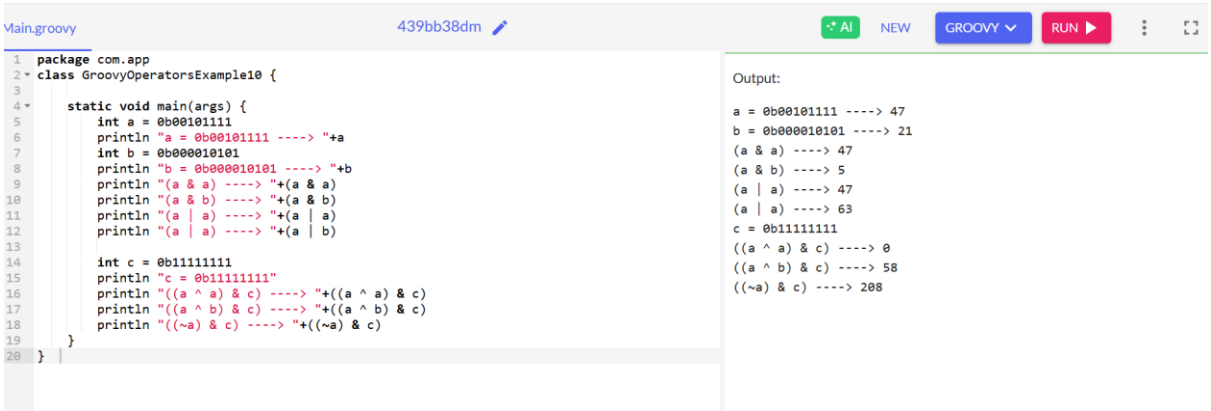
Logical operators

Example 1

Example 2



Bitwise operators



Example 2

Main.groovy 439bb38dm AI NEW GROOVY RUN

```
package com.app
class GroovyOperatorsExample11 {
static void main(args) {
        int a = 23
        int b = 43
        println "Converting Integer to Binary a = 23 ----> " + Integer.toBinaryString(a)
        println "Converting Integer to Binary b = 43 ----> " +Integer.toBinaryString(b)
        println "Converting binary to integer 10111 ----> a = " + Integer.parseInt("10111",
        println "Converting binary to integer 101011 ----> b = " + Integer.parseInt("10111"
    }
}
```

Output:

```
Converting Integer to Binary a = 23 ----> 10111
Converting Integer to Binary b = 43 ----> 101011
Converting binary to integer 10111 ----> a = 23
Converting binary to integer 101011 ----> b = 23
```

Conditional operators

Example programs

Main.groovy 439bb38dm AI NEW GROOVY RUN

```
package com.app
class GroovyOperatorsExample1 {
static void main(args) {
        String Answer
        String s = 'javatpoint'
        println Answer = s ? 'Found' : 'Not Found'
        println Answer = s ?: 'Found'
    }
}
```

Output:

```
Found
javatpoint
```

Main.groovy 439bb38dm AI NEW GROOVY RUN

```
package com.app
class GroovyOperatorsExample12 {
static void main(args) {
        println "(!true) ----> "+(!true)
        println "(!'javatpoint') ----> "+(!'javatpoint')
        println "!Null ----> "+(!'')
    }
}
```

Output:

```
(!true) ----> false
(!'javatpoint') ----> false
!Null ----> true
```