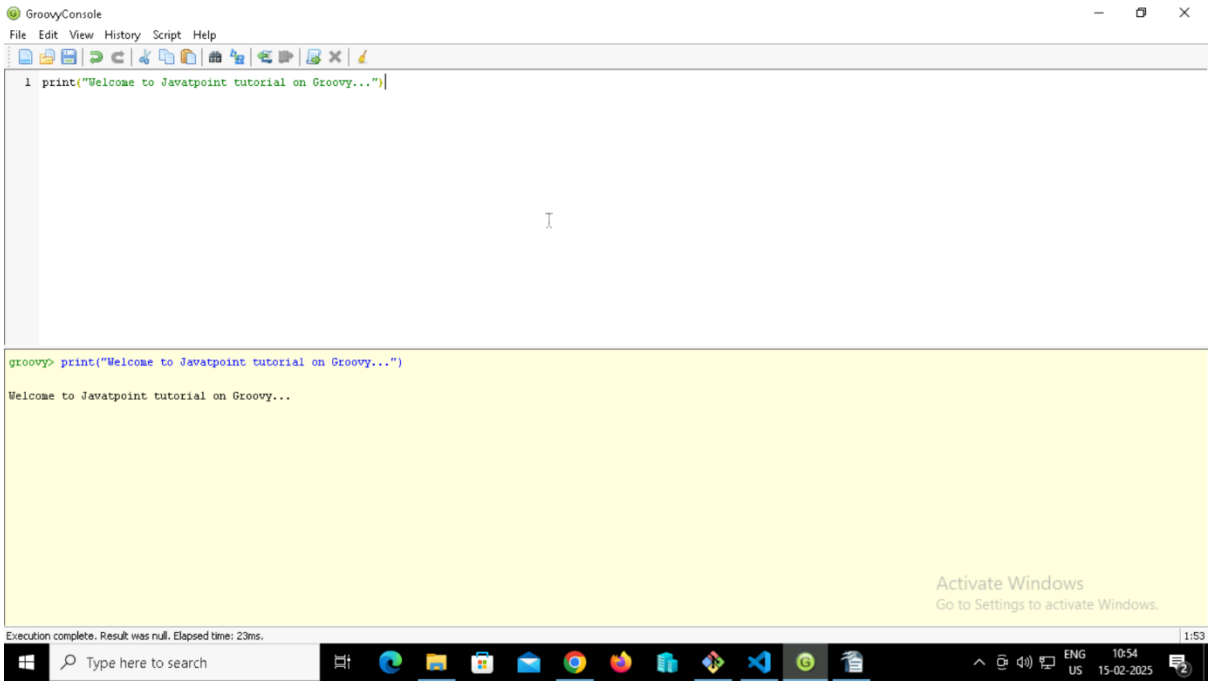
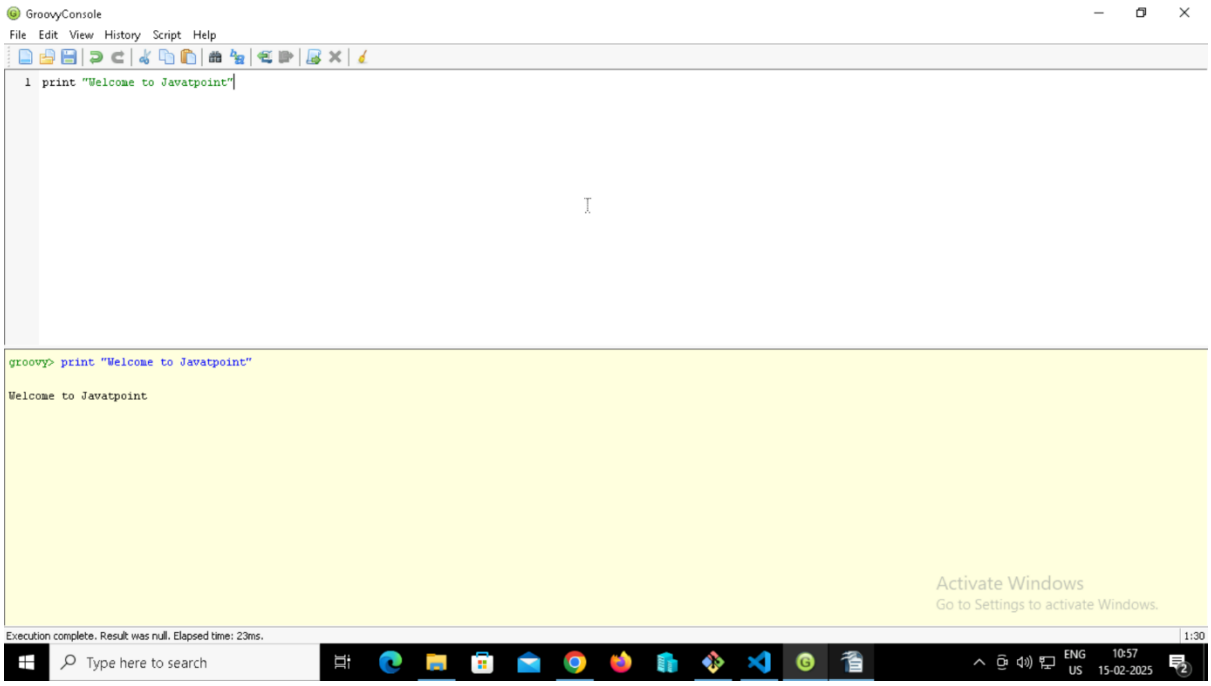
Q. Basic Groovy Program

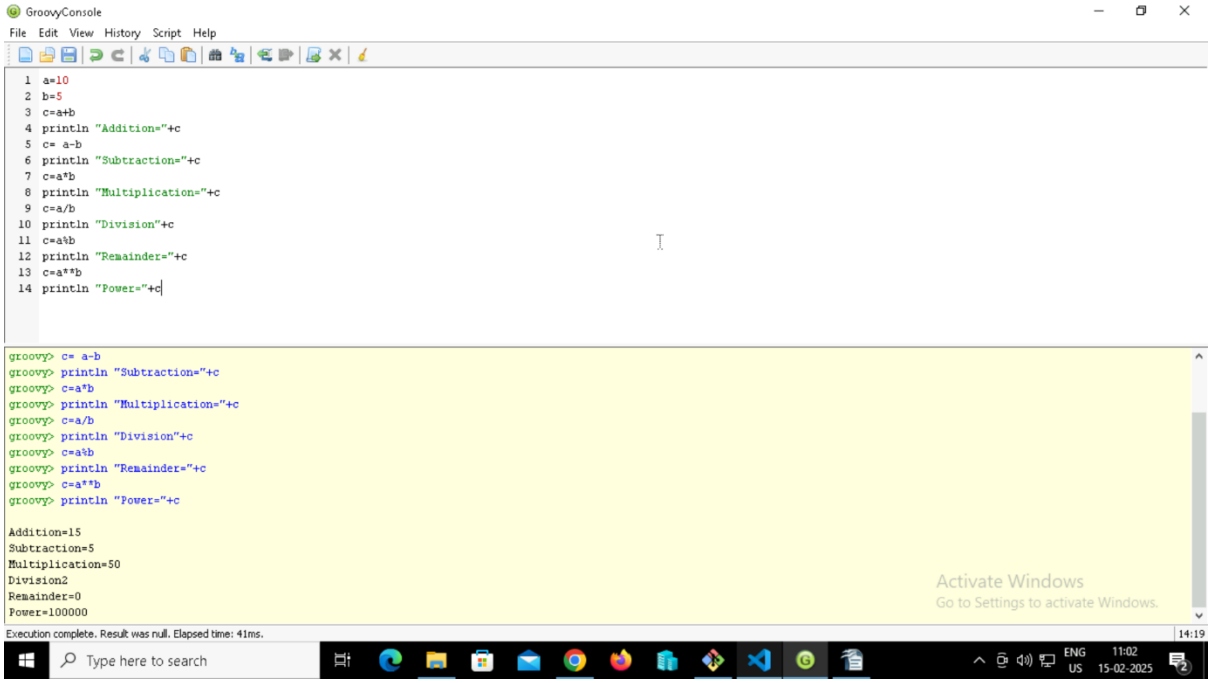


Q. Groovy syntax

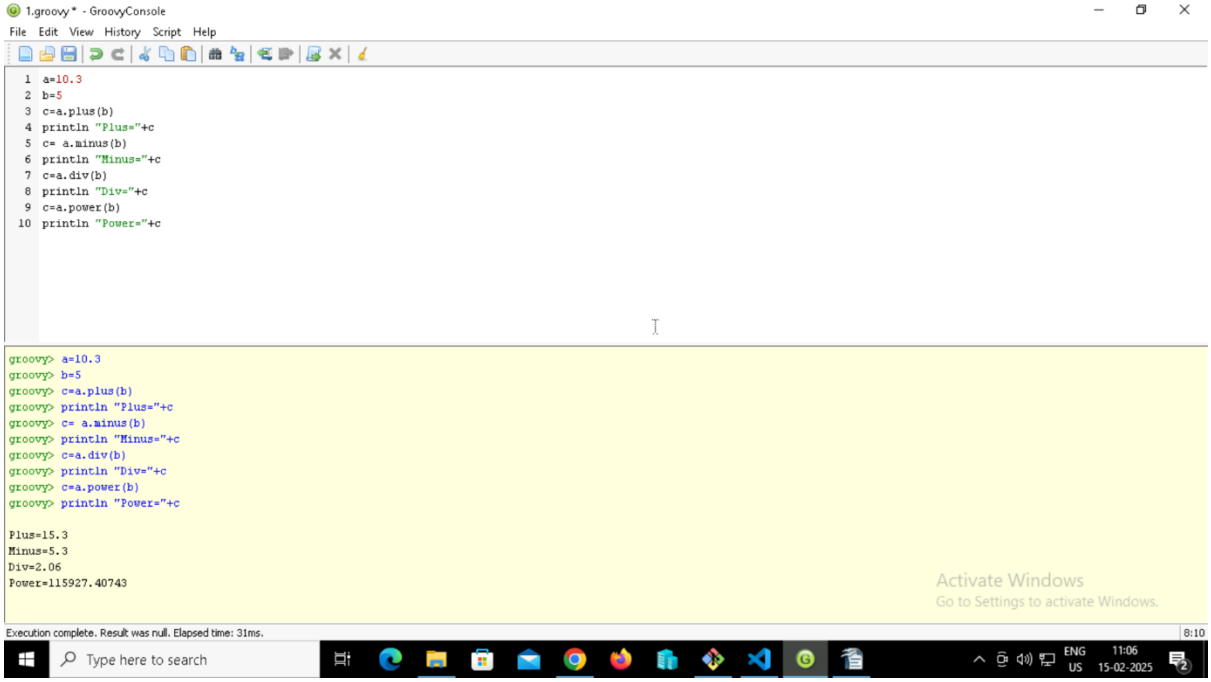


Operators

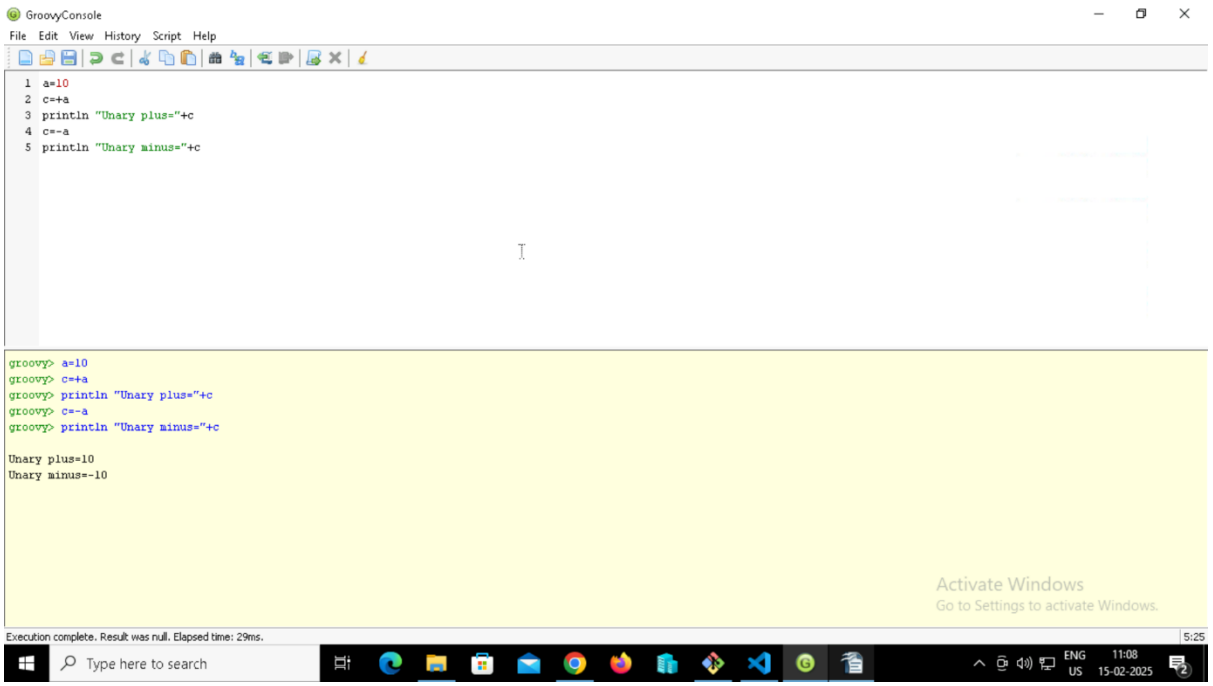
Q.



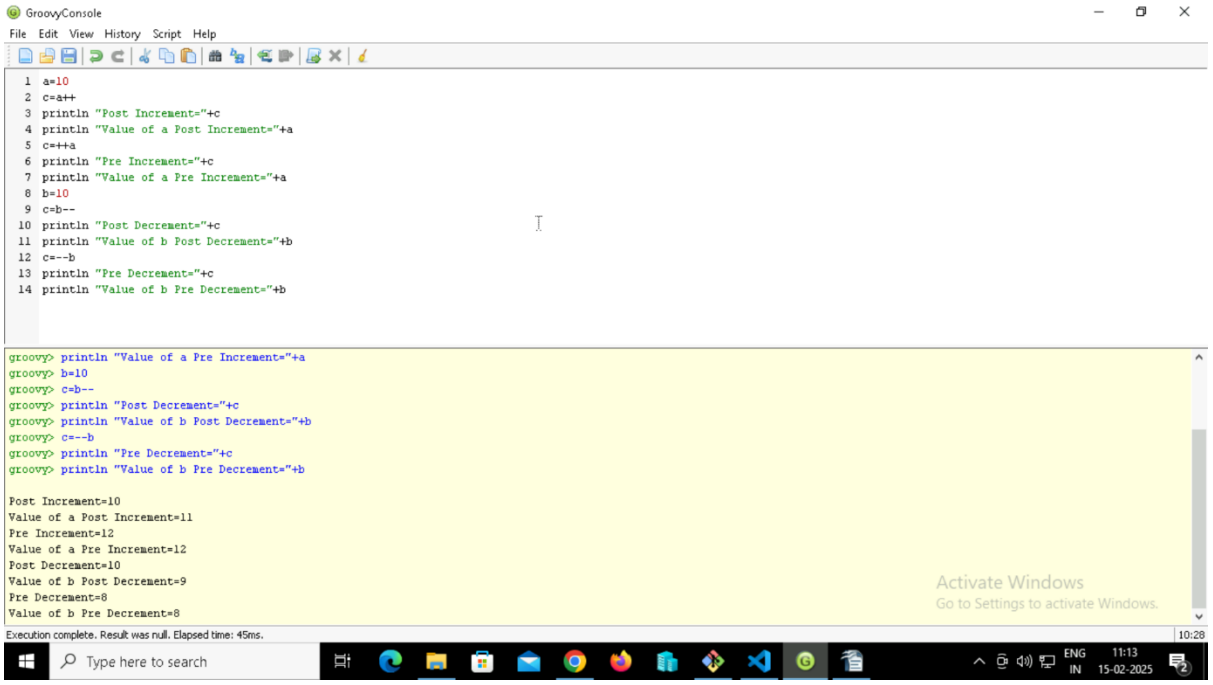
Q.



Q.


GroovyConsole
File Edit View History Script Help
1 a=10
2 c=+a
3 println "Unary plus="+c
4 c=-a
5 println "Unary minus="+c
groovy> a=10
groovy> c=+a
groovy> println "Unary plus="+c
groovy> c=-a
groovy> 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: 29ms.
5:25
Type here to search
ENG
US
11:08
15-02-2025

Q.


GroovyConsole
File Edit View History Script Help
1 a=10
2 c=a++
3 println "Post Increment="+c
4 println "Value of a Post Increment="+a
5 c=++a
6 println "Pre Increment="+c
7 println "Value of a Pre Increment="+a
8 b=10
9 c=b--
10 println "Post Decrement="+c
11 println "Value of b Post Decrement="+b
12 c=--b
13 println "Pre Decrement="+c
14 println "Value of b Pre Decrement="+b
groovy> println "Value of a Pre Increment="+a
groovy> b=10
groovy> c=b--
groovy> println "Post Decrement="+c
groovy> println "Value of b Post Decrement="+b
groovy> c=--b
groovy> println "Pre Decrement="+c
groovy> println "Value of b Pre Decrement="+b
Post Increment=10
Value of a Post Increment=11
Pre Increment=12
Value of a Pre Increment=12
Post Decrement=10
Value of b Post Decrement=9
Pre Decrement=8
Value of b Pre Decrement=8
Activate Windows
Go to Settings to activate Windows.
Execution complete. Result was null. Elapsed time: 45ms.
10:28
Type here to search
ENG
IN
11:13
15-02-2025

Q.

GroovyConsole

File Edit View History Script Help

```
a=10
c=a++
println "Post Increment="+c
println "Value of a Post Increment="+a
c=++a
println "Pre Increment="+c
println "Value of a Pre Increment="+a
b=10
c=b--
println "Post Decrement="+c
println "Value of b Post Decrement="+b
c=--b
println "Pre Decrement="+c
println "Value of b Pre Decrement="+b
```

```
groovy> println "Value of a Pre Increment="+a
groovy> b=10
groovy> c=b--
groovy> println "Post Decrement="+c
groovy> println "Value of b Post Decrement="+b
groovy> c=--b
groovy> println "Pre Decrement="+c
groovy> println "Value of b Pre Decrement="+b

Post Increment=10
Value of a Post Increment=11
Pre Increment=12
Value of a Pre Increment=12
Post Decrement=10
Value of b Post Decrement=9
Pre Decrement=8
Value of b Pre Decrement=8
```

Activate Windows
Go to Settings to activate Windows.

Execution complete. Result was null. Elapsed time: 45ms. 10:28

Type here to search ENG IN 11:14 15-02-2025

Q.

GroovyConsole

File Edit View History Script Help

```
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
```

```
groovy> a -= 3
groovy> println "a-=3 ------> " + a
groovy> a *= 3
groovy> println "a*=3 ------> " + a
groovy> a /= 3
groovy> println "a/=3 ------> " + a
groovy> a %= 3
groovy> println "a%=3 ------> " + a
groovy> a **= 3
groovy> println "a**=3 ------> " + a

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

Activate Windows
Go to Settings to activate Windows.

Execution complete. Result was null. Elapsed time: 44ms. 19:1

Type here to search ENG IN 11:19 15-02-2025

Q.

5.groovy * - GroovyConsole

File Edit View History Script Help

```
1  a = 10
2  b = 12
3  println "a = 10"
4  println "b = 12"
5  c = (a == b)
6  println "Relational Operator equals [c = a == b] ----> " + c
7  c = (a != b)
8  println "Relational Operator different [c = a != b] ----> " + c
9  c = (a < b)
10 println "Relational Operator less than [c = a < b] ----> " + c
11 c = (a <= b)
12 println "Relational Operator less than equal to [c = a <= b] ----> " + c
13 c = (a > b)
14 println "Relational Operator greater than [c = a > b] ----> " + c
15 c = (a >= b)
16 println "Relational Operator greater than equal to [c = a >= b] ----> " + c
```

```
groovy> c = (a < b)
groovy> println "Relational Operator less than [c = a < b] ----> " + c
groovy> c = (a <= b)
groovy> println "Relational Operator less than equal to [c = a <= b] ----> " + c
groovy> c = (a > b)
groovy> println "Relational Operator greater than [c = a > b] ----> " + c
groovy> c = (a >= b)
groovy> println "Relational Operator greater than equal to [c = a >= b] ----> " + c

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] ----> false
```

Activate Windows
Go to Settings to activate Windows.

Execution complete. Result was null. Elapsed time: 44ms. 16:76

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ENG IN 11:19 15-02-2025

Q.

GroovyConsole

File Edit View History Script Help

```
1  c = true && true
2  println "Logical AND operator = " + c
3
4  c = true || false
5  println "Logical OR operator = " + c
6
7  c = !false
8  println "Logical NOT operator = " + c
9
```

```
groovy> c = true && true
groovy> println "Logical AND operator = " + c
groovy> c = true || false
groovy> println "Logical OR operator = " + c
groovy> c = !false
groovy> println "Logical NOT operator = " + c

Logical AND operator = true
Logical OR operator = true
Logical NOT operator = true
```

Activate Windows
Go to Settings to activate Windows.

Execution complete. Result was null. Elapsed time: 31ms. 9:1

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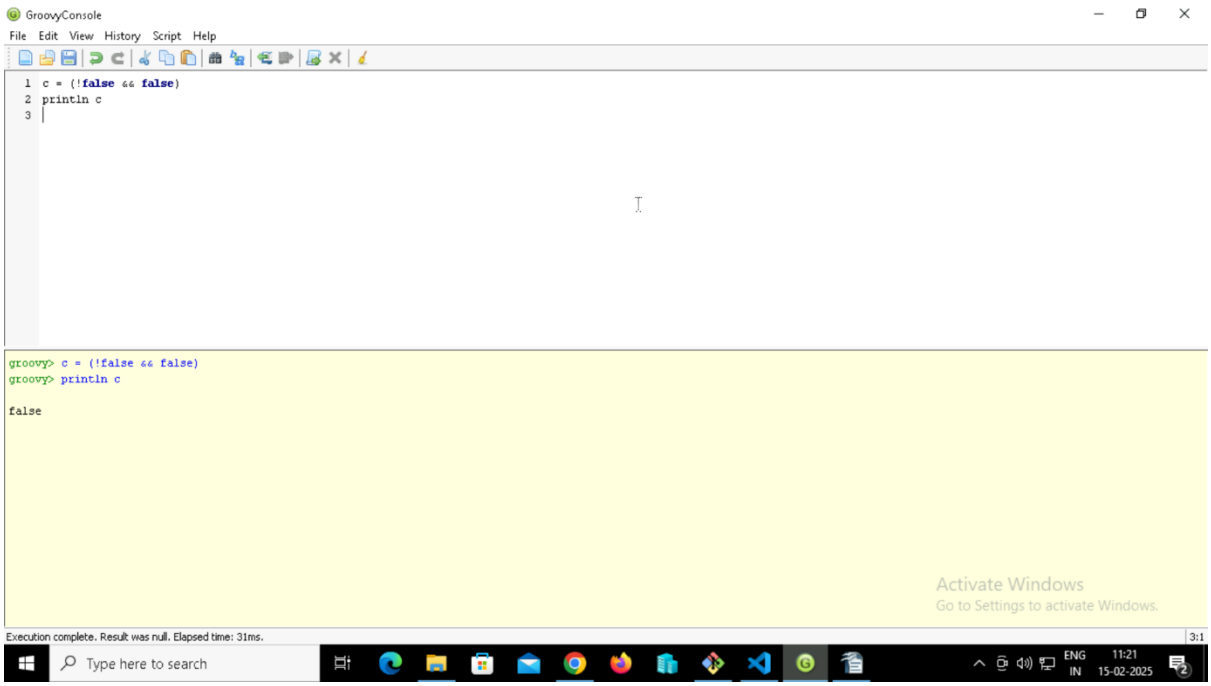
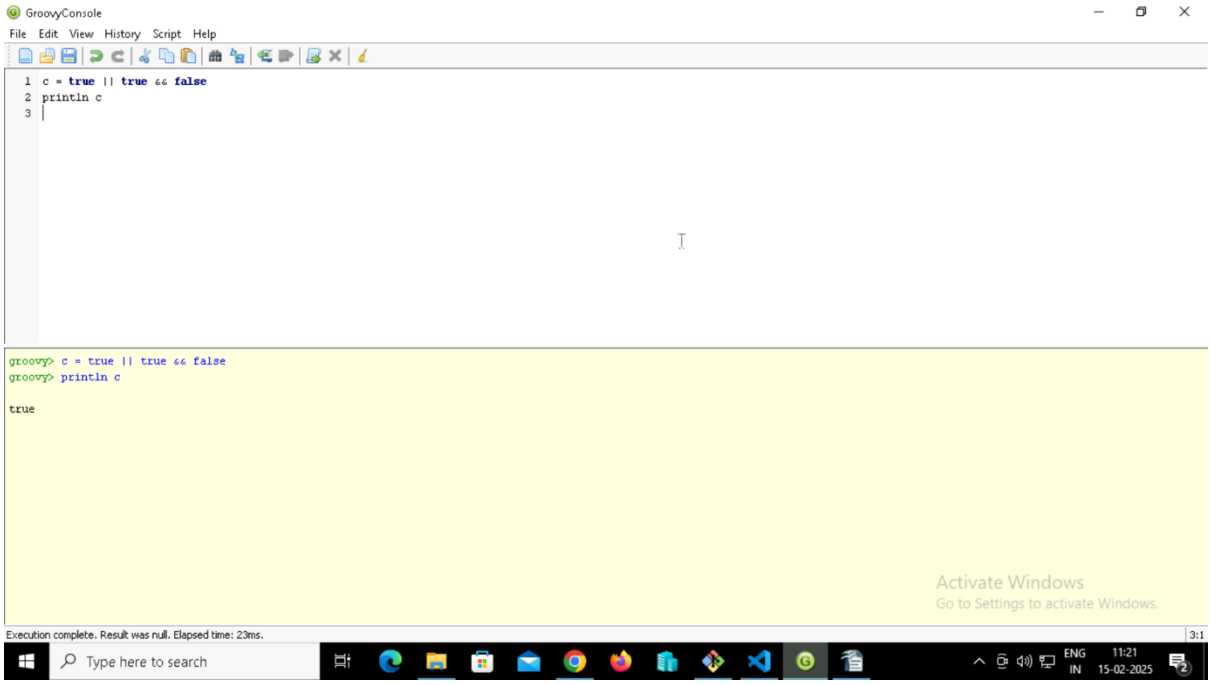
ENG IN 11:20 15-02-2025

Q.


GroovyConsole
File Edit View History Script Help
1 c = (!false && false)
2 println c
3
groovy> c = (!false && false)
groovy> println c
false
Activate Windows
Go to Settings to activate Windows.
Execution complete. Result was null. Elapsed time: 31ms.
3:1
Type here to search
ENG
IN
11:21
15-02-2025

Q.


GroovyConsole
File Edit View History Script Help
1 c = true || true && false
2 println c
3
groovy> c = true || true && false
groovy> println c
true
Activate Windows
Go to Settings to activate Windows.
Execution complete. Result was null. Elapsed time: 23ms.
3:1
Type here to search
ENG
IN
11:21
15-02-2025

Q.

GroovyConsole

File Edit View History Script Help

```
1  a = 0b00101111
2  println "a = 0b00101111 ----> " + a
3  b = 0b000010101
4  println "b = 0b000010101 ----> " + b
5  println "(a & a) ----> " + (a & a)
6  println "(a & b) ----> " + (a & b)
7  println "(a | a) ----> " + (a | a)
8  println "(a | b) ----> " + (a | b)
9  c = 0b11111111
10 println "c = 0b11111111"
11 println "((a ^ a) & c) ----> " + ((a ^ a) & c)
12 println "((a ^ b) & c) ----> " + ((a ^ b) & c)
13 println "((~a) & c) ----> " + ((~a) & c)
14
```

```
groovy> println "(a | b) ----> " + (a | b)
groovy> c = 0b11111111
groovy> println "c = 0b11111111"
groovy> println "((a ^ a) & c) ----> " + ((a ^ a) & c)
groovy> println "((a ^ b) & c) ----> " + ((a ^ b) & c)
groovy> println "((~a) & c) ----> " + ((~a) & c)

a = 0b00101111 ----> 47
b = 0b000010101 ----> 21
(a & a) ----> 47
(a & b) ----> 5
(a | a) ----> 47
(a | b) ----> 63
c = 0b11111111
((a ^ a) & c) ----> 0
((a ^ b) & c) ----> 58
((~a) & c) ----> 208
```

Activate Windows
Go to Settings to activate Windows.

Execution complete. Result was null. Elapsed time: 79ms. 10:25

Type here to search
ENG IN 11:23 15-02-2025

Q.

GroovyConsole

File Edit View History Script Help

```
1  a = 23
2  b = 43
3
4  println "Converting Integer to Binary a = 23 ----> " + Integer.toBinaryString(a)
5  println "Converting Integer to Binary b = 43 ----> " + Integer.toBinaryString(b)
6
7  println "Converting binary to integer 10111 ----> a = " + Integer.parseInt("10111", 2)
8  println "Converting binary to integer 101011 ----> b = " + Integer.parseInt("10111", 2)
9
```

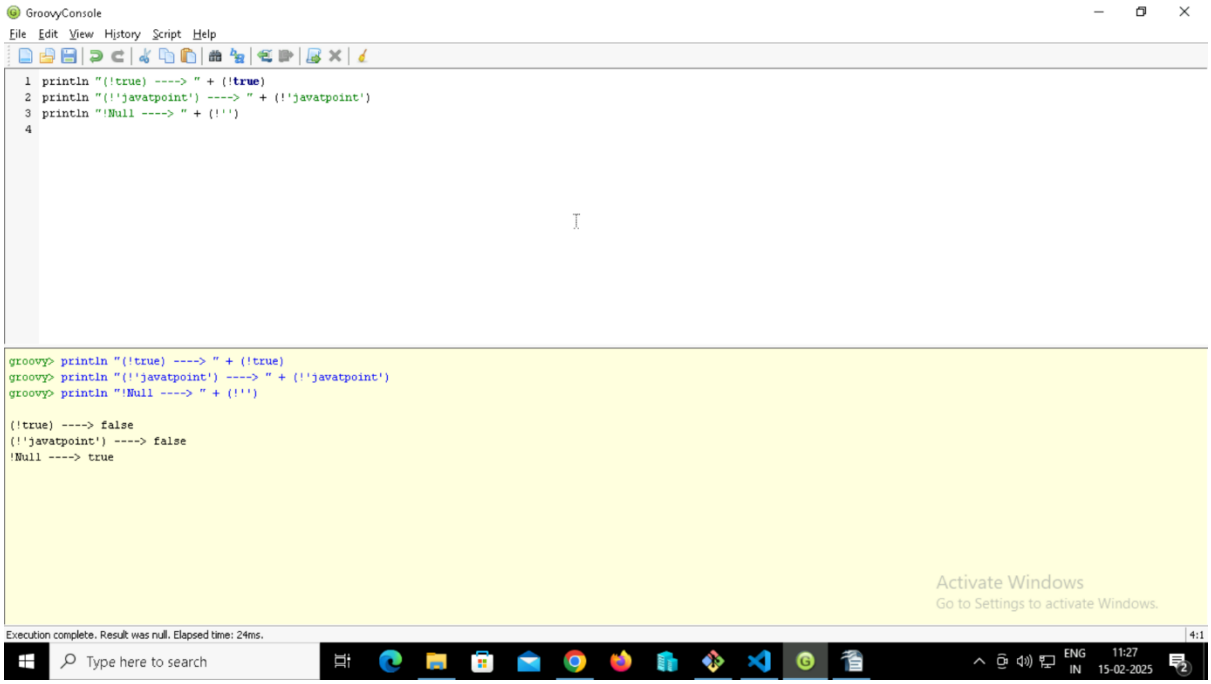
```
groovy> a = 23
groovy> b = 43
groovy> println "Converting Integer to Binary a = 23 ----> " + Integer.toBinaryString(a)
groovy> println "Converting Integer to Binary b = 43 ----> " + Integer.toBinaryString(b)
groovy> println "Converting binary to integer 10111 ----> a = " + Integer.parseInt("10111", 2)
groovy> println "Converting binary to integer 101011 ----> b = " + Integer.parseInt("10111", 2)

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
```

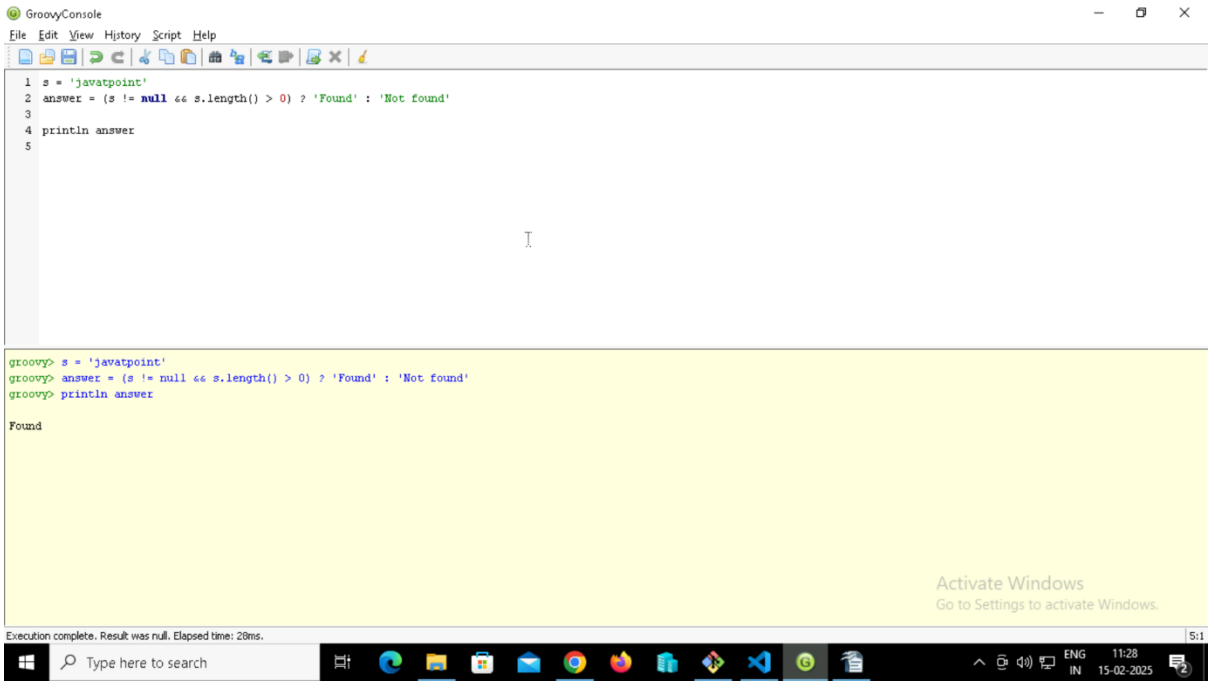
Activate Windows
Go to Settings to activate Windows.

Execution complete. Result was null. Elapsed time: 40ms. 9:1

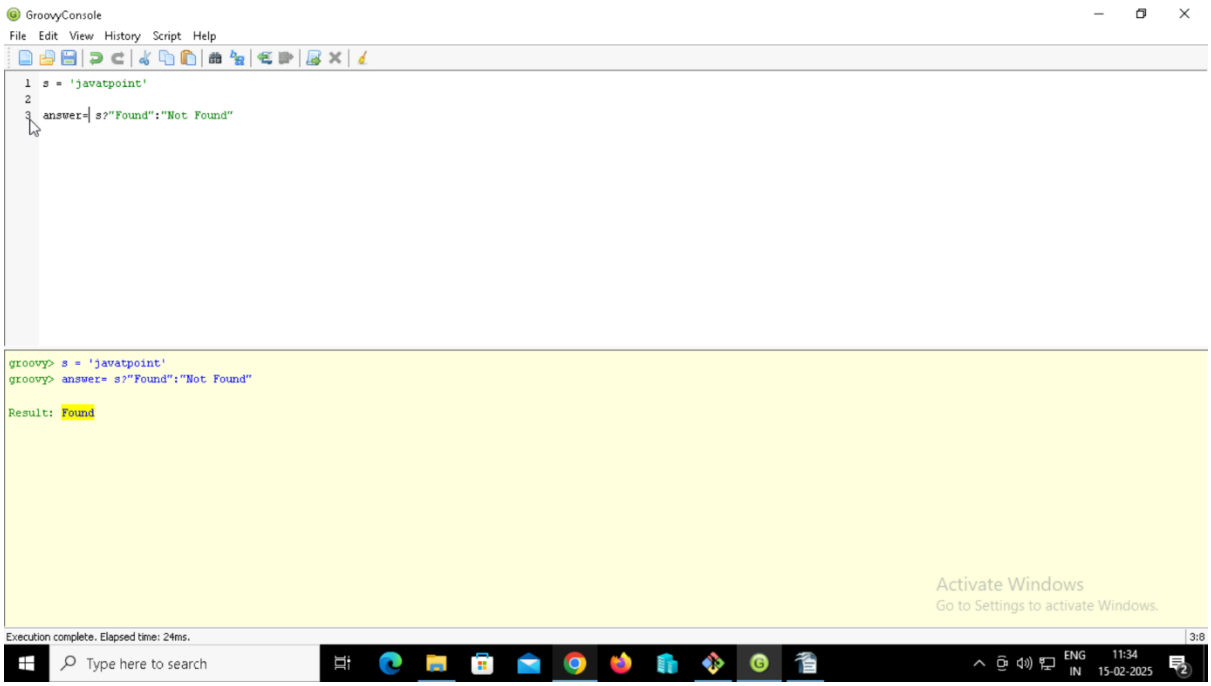
Type here to search
ENG IN 11:27 15-02-2025


GroovyConsole
File Edit View History Script Help
println "(!true) ----> " + (!true)
println "(!''javatpoint') ----> " + (!''javatpoint')
println "!Null ----> " + (!'')
groovy> println "(!true) ----> " + (!true)
groovy> println "(!''javatpoint') ----> " + (!''javatpoint')
groovy> println "!Null ----> " + (!'')
(!true) ----> false
(!''javatpoint') ----> false
!Null ----> true
Activate Windows
Go to Settings to activate Windows.
Execution complete. Result was null. Elapsed time: 24ms.
4:1
Type here to search
ENG IN
11:27
15-02-2025

Q.


GroovyConsole
File Edit View History Script Help
s = 'javatpoint'
answer = (s != null && s.length() > 0) ? 'Found' : 'Not found'
println answer
groovy> s = 'javatpoint'
groovy> answer = (s != null && s.length() > 0) ? 'Found' : 'Not found'
groovy> println answer
Found
Activate Windows
Go to Settings to activate Windows.
Execution complete. Result was null. Elapsed time: 28ms.
5:1
Type here to search
ENG IN
11:28
15-02-2025

Q.


GroovyConsole
File Edit View History Script Help
1 s = 'javatpoint'
2
3 answer= s?"Found":"Not Found"
groovy> s = 'javatpoint'
groovy> answer= s?"Found":"Not Found"
Result: Found
Activate Windows
Go to Settings to activate Windows.
Execution complete. Elapsed time: 24ms.
3:8
Type here to search
ENG
IN
11:34
15-02-2025