

Java Concept 47

- In `&&` operator if left side is `false` then right side wont be evaluated
- In `&&` operator if left side is `true` then right side will be evaluated
- In `||` operator if left side is `true` then right side wont be evaluated
- In `||` operator if left side is `false` then right side will be evaluated

```
1 //left side variable = a
2 //right side variable = b
3 boolean x = a && b;
4 boolean y = a || b;
```

Left Side	Operator	Right Side
True	&&	Evaluate
False	&&	Not Evaluate
True		Not Evaluate
False		Evaluate

AND Operator (Multiplication)

Input A	Input B	Output
True(1)	True(1)	True(1)
Ture(1)	False(0)	False(0)
False(0)	True(1)	False(0)
False(0)	False(0)	False(0)

OR Operator (Addition)

Input A	Input B	Output
True(1)	True(1)	True(2)
Ture(1)	False(0)	True(1)
False(0)	True(1)	True(1)
False(0)	False(0)	False(0)

```
1 //In && operator if left side is false then
2 //right side wont be evaluated // No Error
3 public class JavaConcept
4 {
5     public static void main(String args[])
6     {
7         int var = 100;
8         if(var == 30 && var/0 == 4)
9         {
10             System.out.println("If 1");
11         }
12         else
13         {
14             System.out.println("else 1");
15         }
16     }
17 }
```

run:
else 1

```
1 //In && operator if left side is true then
2 //right side will be evaluated // Error
3 public class JavaConcept
4 {
5     public static void main(String args[])
6     {
7         int var = 100;
8         if(var == 100 && var/0 == 4)
9         {
10             System.out.println("If 2");
11         }
12         else
13         {
14             System.out.println("else 2");
15         }
16     }
17 }
```

Error- java.lang.ArithmeticException: / by zero

```

1 //In || operator if left side is true then
2 //right side will not be evaluated // No Error
3 public class JavaConcept
4 {
5     public static void main(String args[])
6     {
7         int var = 100;
8         if(var == 100 || var/0 == 4)
9         {
10             System.out.println("If 3");
11         }
12         else
13         {
14             System.out.println("else 3");
15         }
16     }
17 }

```

run:
If 3

```

1 //In || operator if left side is false then
2 //right side will be evaluated //Error
3 public class JavaConcept
4 {
5     public static void main(String args[])
6     {
7         int var = 100;
8         if(var == 30 || var/0 == 4)
9         {
10             System.out.println("If 4");
11         }
12         else
13         {
14             System.out.println("else 4");
15         }
16     }
17 }
18 }

```

Error-