

Working with Bitwise AND(&), Bitwise OR(|) and Bitwise X-OR (^) :

Truth Table of AND Gate (A.B)

A	B	F
0	0	0
0	1	0
1	0	0
1	1	1

Truth Table of OR Gate (A + B)

A	B	F
0	0	0
0	1	1
1	0	1
1	1	1

Truth Table of Bitwise X-OR ($A \oplus B$)

A	B	F
0	0	0
0	1	1
1	0	1
1	1	0

Same input output will be 0(false)

```
System.out.println(5 & 6);
System.out.println(5 | 6);
System.out.println(5 ^ 6);
```

Result will be
calculated based on
the Truth table

Binary of 5 :	1	0	1	
Binary of 6 :	1	1	0	
	1	0	0	5 & 6
	1	1	1	5 6
	0	1	1	5 ^ 6