

Logical Operator

Logical Operator	Java Operator
AND	&&
OR	П
NOT	!

1.AND→&&

value1	value2	Marriage
boy(yes)	girl(NO)	NO
boy(no)	girl(yes)	NO
boy(no)	girl(no)	NO
boy(yes)	girl(yes)	YES

AND--&&: Rule: Result is True only when both inputs are TRUE.

input1	input2	Result
True	False	False
False	True	False
False	False	False
True	True	True

System.out.println("(5>1)&&(5>3):" +((5>1)&&(5>3))) output:

(5>1)&&(5>3):true



2.**OR --> ||**

value1	value2	Marriage Success
husband(bad)	wife(good)	YES
husband(good)	wife(bad)	YES
husband(good)	wife(good)	YES
husband(ego)	wife(ego)	NO

Logical OR Operator | | Rule: Result is False if both the inputs are False.

input1	input2	Result
False	True	True
True	False	True
True	True	True
False	False	False

Program Below



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```
public class LogicalOperator
     public static void main(String args[])
     System.out.println("Logical AND Operator\n");
     //AND &&: Rule: Result is True only when both inputs are TRUE.
     System. out. println((10>1)&&(10>5): +((10>1)&&(10>5)));//true
     System.out.println("(10>1)&&(10>100):"+((10>1)&&(10>100)));//false
     System. out. println("(10>100)&&(10>1):"+((10>100)&&(10>1)));//false
     System. out. println("(10>100)&&(10>200):"+((10>100)&&(10>200)));
//false
     System.out.println("\n\nLogical OR Operator\n");
//OR Operator || Rule: Result is False if both the inputs are False.
     System.out.println("(5>1)||(5>3):"+((5>1)||(5>3)));//true
     System. out. println("(5>1)||(5>100):"+((5>1)||(5>100)));//true
     System. out. println("(5>100)||(5>1):"+((5>100)||(5>1)));//true
     System. out. println((5>100))(5>200):(5>100)(5>200));//false
     }
}
OutPut:
Logical AND Operator
(10>1)&&(10>5):true
(10>1)&&(10>100):false
(10>100)&&(10>1):false
(10>100)&&(10>200):false
Logical OR Operator
(5>1)||(5>3):true
(5>1)||(5>100):true
(5>100)||(5>1):true
(5>100)||(5>200):false
```

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