

Logical Operators

Logical operators are used to connect more relational operations to form a complex expression called logical expression. A value obtained by evaluating a logical expression is always logical, i.e. either True or False.

Operator	Meaning	Example	Result
and	Logical and	$(5 < 2)$ and $(5 > 3)$	False
or	Logical or	$(5 < 2)$ or $(5 > 3)$	True
not	Logical not	not $(5 < 2)$	True

and

Operand 1	Operand 2	Result
True	True	True
True	False	False
False	True	False
False	False	False
True	Expression	Expression
False	Expression	False

True and Expression1 and Expression2 = Expression2

False and Expression1 and Expression2 = False

or

Operand 1	Operand 2	Result
True	True	True
True	False	True
False	True	True
False	False	False
True	Expression	True
False	Expression	Expression

True or Expression1 or Expression2 = True

False or Expression1 or Expression2 = Expression1

not

Operand	Result
False	True
True	False