



Cyber Security Bootcamp

Hyperiondev

Logical Programming -Operators

Welcome
Your Lecturer for this session



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Objectives

Learn how to tell the compiler how to perform specific mathematical, relational, or logical operations using operators.

Operators

- ★ So far, we have used a few operators, namely:
 - Assignment (=)
 - Equal to (==)
 - Greater than (>)
 - Less than (<)
- ★ Here we will cover more operators available to us and how to utilise them.

Comparison Operators

x = 1 and **y** = 1

OPERATOR	OPERATION	EXAMPLE
== Equal to	True if x has the same value as y	x == y # True
!= Not equal to	True if x does NOT have the same value as y	x!= y # False
>= greater than or equal to	True if x is greater than or equal to y	x >= y # True
<= Less than or equal to	True if x is less than or equal to y	x <= y # True

Logical Operators

OPERATOR	OPERATION	EXAMPLE
and	True if both x AND y are true (logical conjunction)	If x and y: print(z)
or	True if either x OR y are true (logical disjunction)	If x or y: print(z)
not	True if the opposite of x is true (logical negation)	If not x: print(y)

and Operator

- * Returns as True when both conditions specified are met.
- **★** Example:

```
if grade > 50 and grade > 75:
    print("conjunction")
    print("Both Conditions have been met :)")
```

or Operator

- * Returns True if either of the specified conditions are met.
- **★** Example:

```
elif grade > 50 or grade > 75:
    print("disjunction")
    print("At least one of these conditions have been met.")
```

not Operator

- ★ Changes the condition from True to False and vice versa.
- **★** Example:

```
if not grade > 50:
    print("Negation")
```

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Q & A Section

Please use this time to ask any questions relating to the topic, should you have any.



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Thank You for Joining Us