Logical Operators

- and: Returns True if both conditions are true
- or: Returns True if one of the statements is true
- not: Reverse the result, returns False if the result is true

Example:

```
>>> a = 10
>>> b = 20
>>> if (a > 5 and a < 20):
>>> print("both conditions are true")
>>> if (b < 30 or b > 50):
>>> print("one of the conditions is true")
>>> x = 5
>>> print(not(x > 3 and x < 10))</pre>
```

Logical Operator

AND

```
[3]: numb = int(input('this is the number-'))

if numb>=5 and numb<=100:
    print('Small number')

else:
    print('Large Number')

this is the number- 106
Large Number

numb = int(input('this is the number- '))

if numb%2==0 or numb%5==0:
    print('done')

else:
    print('Error')

this is the number- 17
Error
```

NOT

```
[11]: x=6
    print(x>5)
    True

[13]: x=6
    print(not(x>5))
    False
```