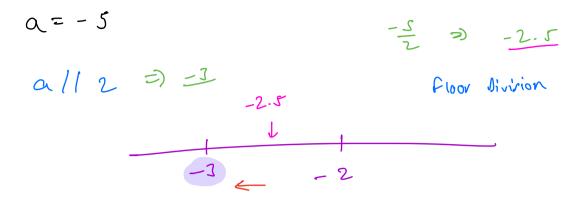
### **Control Statements 1**



### Agenda

- Comparisons
- Assignment & Equality
- Logical Operators
- Basic Branching
- If else
- Practice problems



Try reloading of you cannot hear me.

Onboarding
Form
Pinned
Message

### **Comparison Operators**

$$7 < 7 > = 7 < 7$$
 $8 < 3$ 

Act of equal  $! = 7$ 
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x = = 10 -> True

### **Assignment Operator**



$$x = 3$$

$$x = x + 5$$

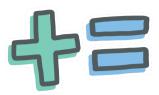
$$x = 8$$

$$X = 10$$

$$X = X - 7$$

$$X = 3$$

### Compound Assignment



$$x = x - 8 \Rightarrow x - = 8$$

$$x = x + 5$$
  $\Rightarrow$   $x + = 5$ 

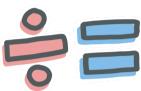
$$\Rightarrow x + = 3$$

$$\times = \times *3 \Rightarrow \times * = 3$$

$$x = x/2 \Rightarrow x/=2$$

$$\times 1=2$$







### Logical Operators

and, or, not

Combine multiple logical conditions

X == 1000 95

false

Final result

True

95

ex pr2

Final

Felse

٩	expv 1	expr 2	Result
	F	£	t
->	F	T	\ т
	7	C	\ \ \ \
	7	T	7

Ouiz

AND

$$\frac{10 > 5}{1} \quad \text{and} \quad \frac{20 < 100}{1}$$

$$T \quad \Rightarrow \text{True}$$

expr1	expr2	Result
F	F	F
F	τ /	٦
T	F	F
T	T	τ (

Quiz

Break till

10:17 PM

NOT - opposite booken value

not True - False

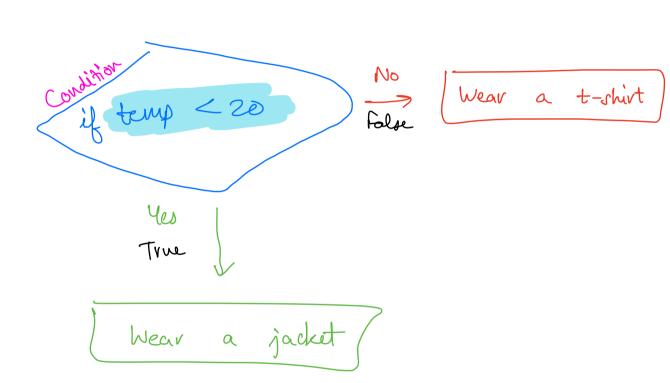
not False - True

True & Akarh
False > Everyone else

# Branching - if-else



Weather Forecast



### Syntax

Condition:

Cade execute

When condition

is True

else:

Condition is false

weather example

temp = int (input())

if temp < 20:

print (" Wear a jacket")

else:

print (" Wear a t-nirt")

### Indentation

```
Indents are used to define code blocks in Python

Croup of code statement
```

```
temp < 10

Tachel

Tachel

Tachel

Tachel

Nave a sood
day
```

```
if temp < 20:
    print("Wear a jacket")
    print("Wear a cap")
    print("Wear gloves too")
else:
    print("Wear a t-shirt")
    print("Wear shorts")
    print("Wear sunglasses")</pre>
```

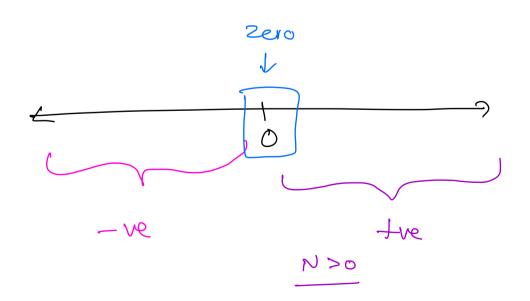
```
temp = 40

1 > Tabirt

> Shorts

- Sunglasses

- Name a good day
```



#### Challenge:

Read 2 numbers - a & b, print max of them



a , b

if a > b:

Larger = a

else:

larger = b

## **Doubts**

Thank You

Good Night

Thank You

Monday