

Conditional Statement

- **if statements**

- The if statement is used to **test a condition**. If the condition is true, the code inside the if statement is executed.

Syntax:

if condition:

 # code to execute if the condition is true

- **if...else statements**

- The if...else statement extends the if statement by **providing an alternative code** to execute when the condition is false.

Syntax:

if condition:

 # code to execute if the condition is true

else:

 # code to execute if the condition is false

- **Python if elif else statement how does they work**

- The if...elif...else statement **allows you to test multiple conditions in sequence**. The first condition that is true will execute its corresponding code, and the rest of the statements will be skipped.

Syntax:

if condition1:

 # code to execute if condition1 is true

elif condition2:

 # code to execute if condition is true

else:

 # code to execute if none of the conditions are true

If they work together here is the example:

Example using if, elif, and else statements

x = 10

if x > 0:

 print("x is positive")

elif x == 0:

 print("x is zero")

else:

 print("x is negative")

