

Conditional statements

Help us make decisions based on specific conditions. They allow us to run different parts of our code depending on whether something is true or false. These statements are crucial for controlling how our program behaves and making it react appropriately to different situations.

if Statements:

It is used to execute a block of code only if a specified condition is true.

Ex:

if condition:

Code to be executed if the condition is true

x = 10

if x > 5:

print("x is greater than 5")

result: x is greater than 5

if...else Statements:

The if...else statement extends the functionality of the if statement. It allows the execution of one block of code if a condition is true and another block if the condition is false.

Ex:

if condition:

Code to be executed if the condition is true

else:

Code to be executed if the condition is false

x = 3

if x > 5:

print("x is greater than 5")

else:

print("x is not greater than 5")

result: x is not greater than 5

Python if elif else Statement:

The if...elif...else statement provides a way to handle multiple conditions sequentially. It allows the evaluation of several conditions, and the first one that is true will execute its corresponding block of code.

Ex:

if condition1:

Code to be executed if condition1 is true

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elif condition2:  
    # Code to be executed if condition2 is true  
else:  
    # Code to be executed if none of the conditions are true  
  
score = 85  
  
if score > 90:  
    print("Grade A")  
elif score > 75:  
    print("Grade B")  
else:  
    print("Grade C")  
result: Grade B
```