

Understanding Looping Constructs

Instructor

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Looping Constructs in Python



Looping Construct: Scenario

Jake wants to print his name 10 times.

Output:

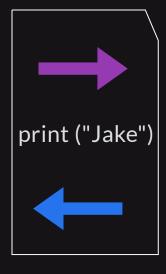
Jake Jake Jake Jake Jake Jake Jake Jake Jake

Jake



print("Jake") print("Jake") print("Jake") print("Jake") print("Jake") print("Jake") print("Jake") print("Jake") print("Jake") print("Jake")

Manually, without using loops



Using Loop



When Are Loops Needed?



Repetitive Tasks



Iterative Over Data Structure



Conditional Repetition



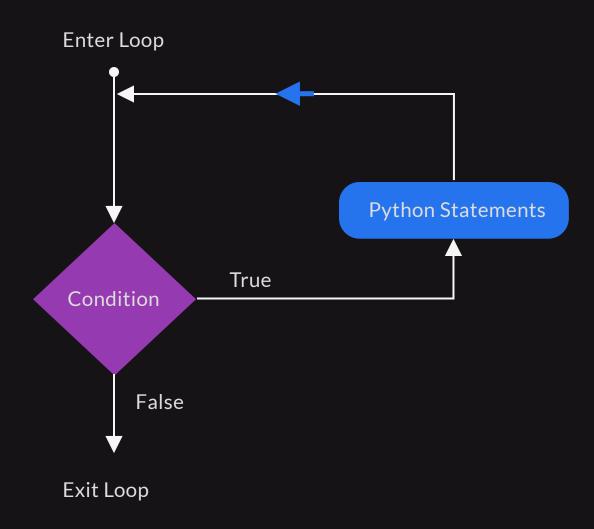
Processing User Input



Simulations and Games



Looping Construct in Python



In Python, looping statements allow a block of statements (codes) to be repeated as long as some condition is met.



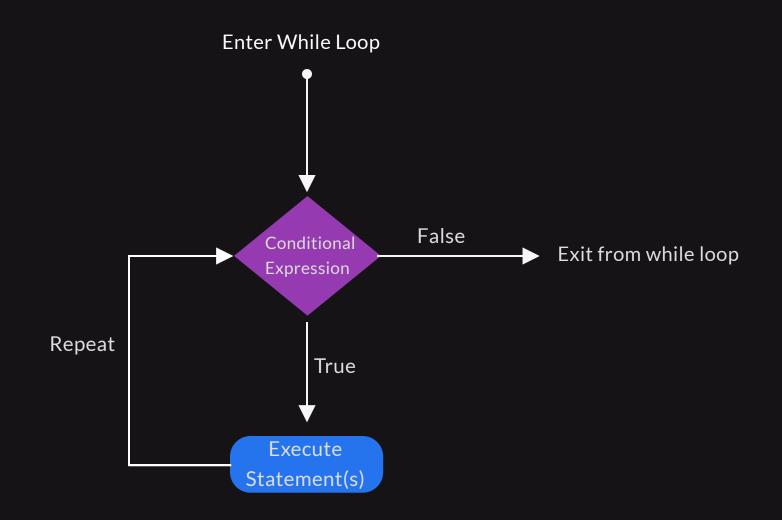
Types of Loop





Looping Construct: While Loop

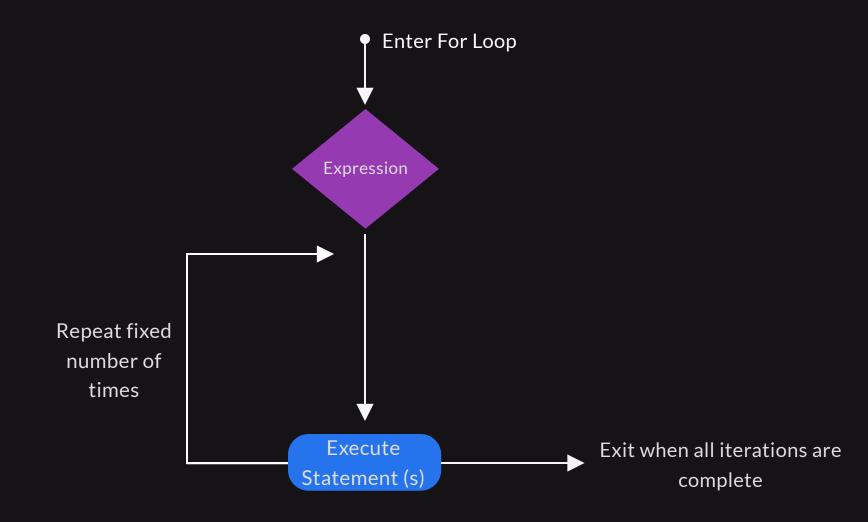
A while loop in Python is used to repeat a specific block of code an unknown number of times, until a condition is met.





Looping Construct: For Loop

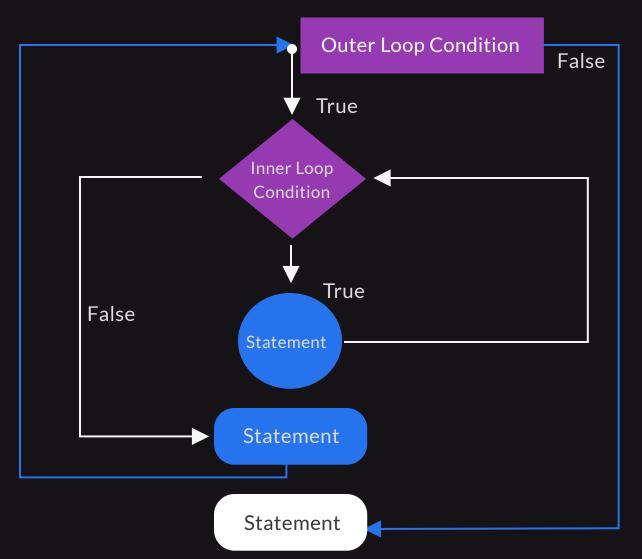
A For loop in Python is used for iterating over a sequence (that is either a list, a string, or a set).





Looping Construct: Nested Loop

A Nested loop has one or more loops within the body of another loop. The two loops are referred as inner loop and outer loop.





Hands on

Implementing Looping Construct in Python



Thank You

