

Continue() & break() function

22 October 2020 11:18

What is the use of break and continue in Python?

In Python, break and continue statements can alter the flow of a normal loop.

Loops iterate over a block of code until the test expression is false, but sometimes we wish to terminate the current iteration or even the whole loop without checking test expression.

The break and continue statements are used in these cases.

Python break statement

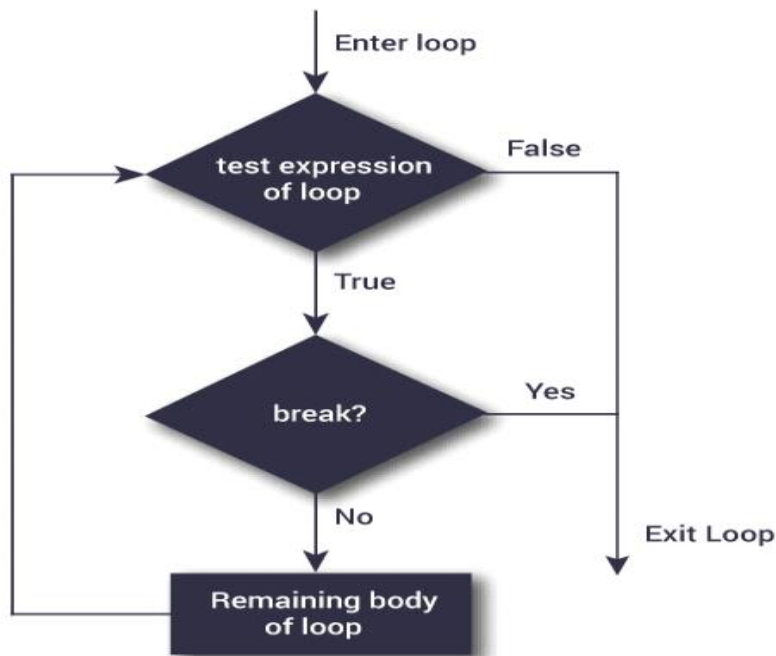
The break statement terminates the loop containing it. Control of the program flows to the statement immediately after the body of the loop.

If the break statement is inside a nested loop (loop inside another loop), the break statement will terminate the innermost loop.

Syntax of break

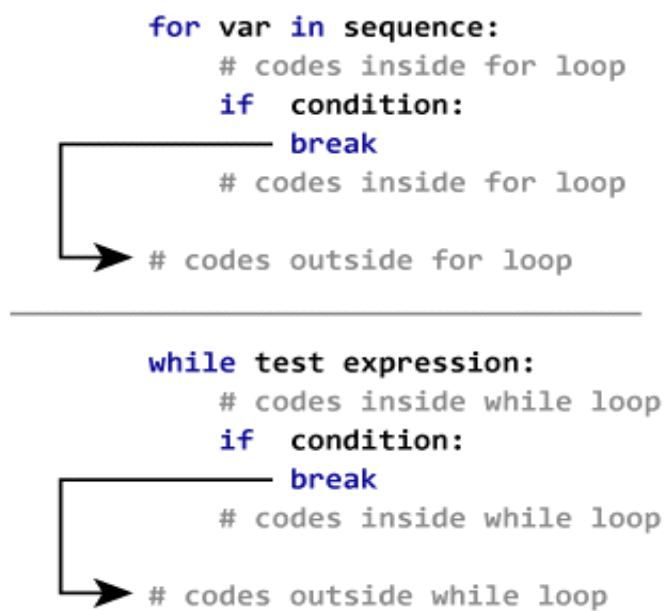
break

Flowchart of break



Flowchart of break statement in Python

The working of break statement in [for loop](#) and [while loop](#) is shown below.



Working of the break statement

Example: Python break

```

# Use of break statement inside the loop
for val in "string":
    if val == "i":
        break
    print(val)

print("The end")
  
```

Output

s
t

r
The end

In this program, we iterate through the "string" sequence. We check if the letter is i, upon which we break from the loop. Hence, we see in our output that all the letters up till i gets printed. After that, the loop terminates.

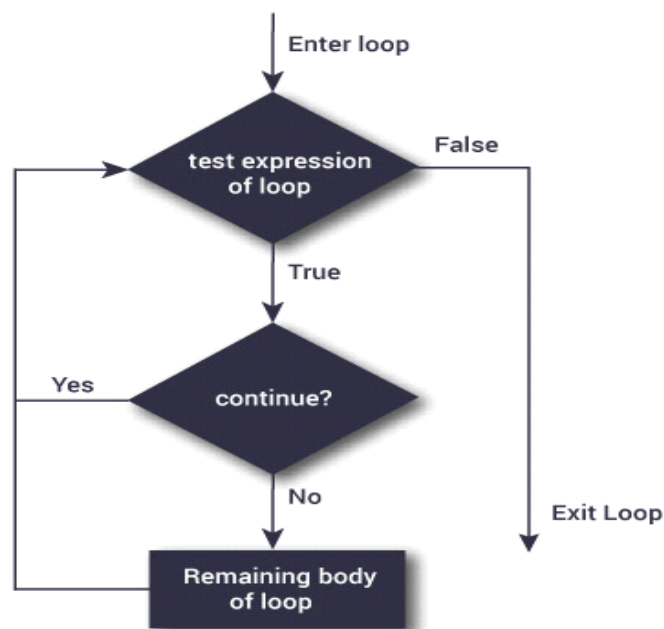
Python continue statement

The continue statement is used to skip the rest of the code inside a loop for the current iteration only. Loop does not terminate but continues on with the next iteration.

Syntax of Continue

continue

Flowchart of continue



Flowchart of continue statement in Python

The working of continue statement in for and while loop is shown below.

```
for var in sequence:
    # codes inside for loop
    if condition:
        continue
    # codes inside for loop

# codes outside for loop
```

```
while test expression:
    # codes inside while loop
    if condition:
        continue
    # codes inside while loop

# codes outside while loop
```

How continue statement works in python

Example: Python continue

```
# Program to show the use of continue statement inside loops
for val in "string":
    if val == "i":
        continue
    print(val)

print("The end")
```

Output

```
s
t
r
n
g
The end
```

This program is same as the above example except the break statement has been replaced with continue.

We continue with the loop, if the string is i, not executing the rest of the block. Hence, we see in our output that all the letters except i gets printed.