# **Python break and continue Statements**

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

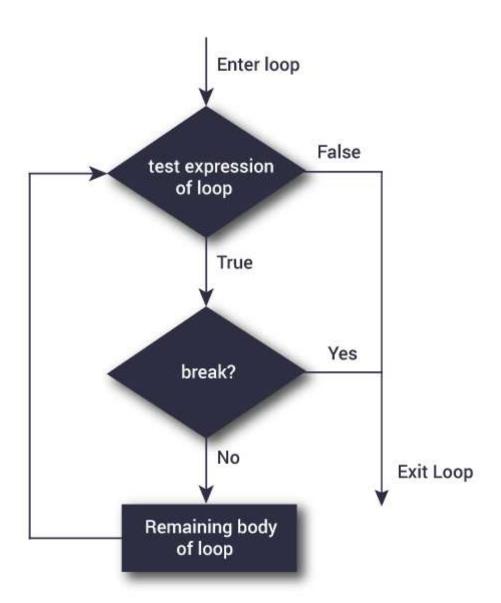
Loops iterate over a block of code until test expression is false, but sometimes we wish to terminate the current iteration or even the whole loop without cheking test expression.

The break and continue statements are used in these cases.

## **Python break Statement**

Syntax:

break



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

while test expression:
    # codes inside while loop
    if condition:
        break
    # codes inside while loop

# codes outside while loop

# codes outside while loop
```

### **Example**

# Python Program to check given number is Prime number or not (using break)

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```
In [ ]: | num = int(input("Enter a number: ")) #convert string to int
        isDivisible = False;
        i=2;
        while i < num:</pre>
            if num \% i == 0:
                 isDivisible = True;
                print ("{} is divisible by {}".format(num,i) )
                break; # this line is the only addition.
            i += 1;
        if isDivisible:
            print("{} is NOT a Prime number".format(num))
        else:
            print("{} is a Prime number".format(num))
        Enter a number: 16
        16 is divisible by 2
        16 is NOT a Prime number
```

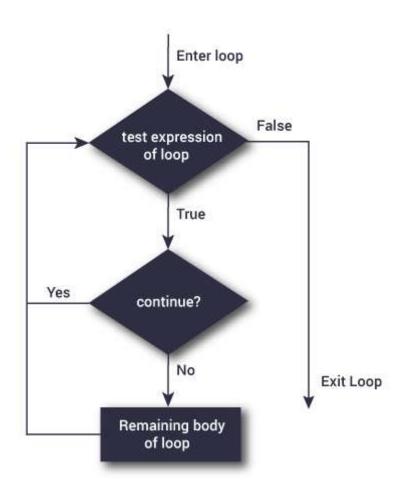
# **Python Continue Statement**

syntax:

continue

#### **Flow Chart**

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```
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

# codes outside while loop
```

### **Example**

```
In [ ]: #print odd numbers present in a list
    numbers = [1, 2, 3, 4, 5]

    for num in numbers:
        if num % 2 == 0:
            continue
        print(num)
    else:
        print("else-block")

1
3
5
else-block
```