

# Python - else in Loop

As you have learned before, the else clause is used along with the if statement. Python allows the else keyword to be used with the for and while loops too. The else block appears after the body of the loop. The statements in the else block will be executed after all iterations are completed. The program exits the loop only after the else block is executed.

Example: else with for loop

```
for x in range(5):  
    print ("iteration no {} in for loop".format(x+1))  
else:  
    print ("else block in loop")  
print ("Out of loop")
```

The output of the above code confirms that the else block in the for loop will be executed while the number is in the range.

Output

```
iteration no 1 in for loop  
iteration no 2 in for loop  
iteration no 3 in for loop  
iteration no 4 in for loop  
iteration no 5 in for loop  
else block in loop  
Out of loop
```

Use of else works well with the while loop too.

Example: else with while loop

```
x=0  
while x<5:  
    x=x+1  
    print ("iteration no {} in while loop".format(x))
```

```
else:  
    print ("else block in loop")  
print ("Out of loop")
```

## Output

iteration no 1 in for loop

iteration no 2 in for loop

iteration no 3 in for loop

iteration no 4 in for loop

iteration no 5 in for loop

else block in loop

Out of loop