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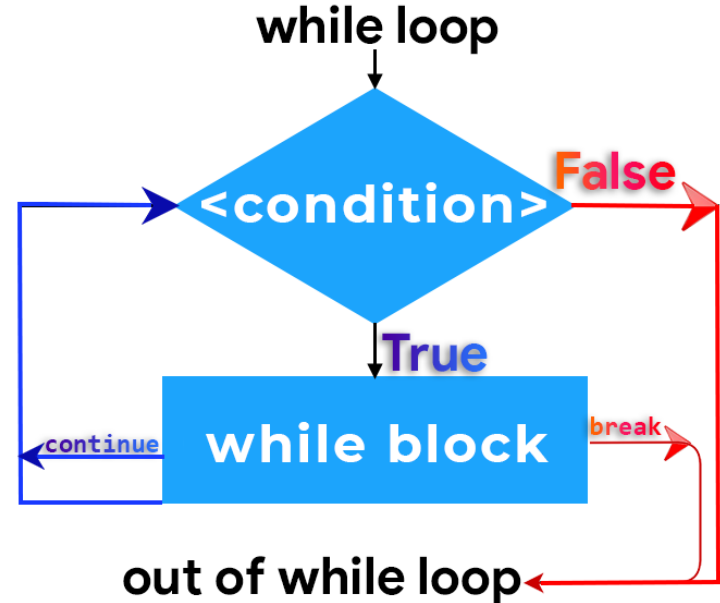
while  
loop



Executing a block of code more than once is called iteration. A programming structure that implements iteration is called a loop. If the number of times a loop is executed isn't specified explicitly in advance, it is called indefinite iteration. While loop can be used for indefinite iteration.

The **else** part of the **while** loop is optional and is used rarely. The else block will be executed only if the loop terminates "by exhaustion" (if the loop iterates until the controlling condition becomes false) If the loop is exited by a break statement, the else block won't be executed.

```
while <expr>:  
    <statement(s)>  
else:  
    <statement(s)>
```



```
n = 4
while n > 0:
    n -= 1
    print(n)
print("DONE")
```

3  
2  
1  
0  
DONE

```
n = 4
while n > 0:
    n -= 1
    print(n)
else:
    print("done")
print("DONE")
```

3  
2  
1  
0  
done  
DONE



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