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Python Loops

- Python loops



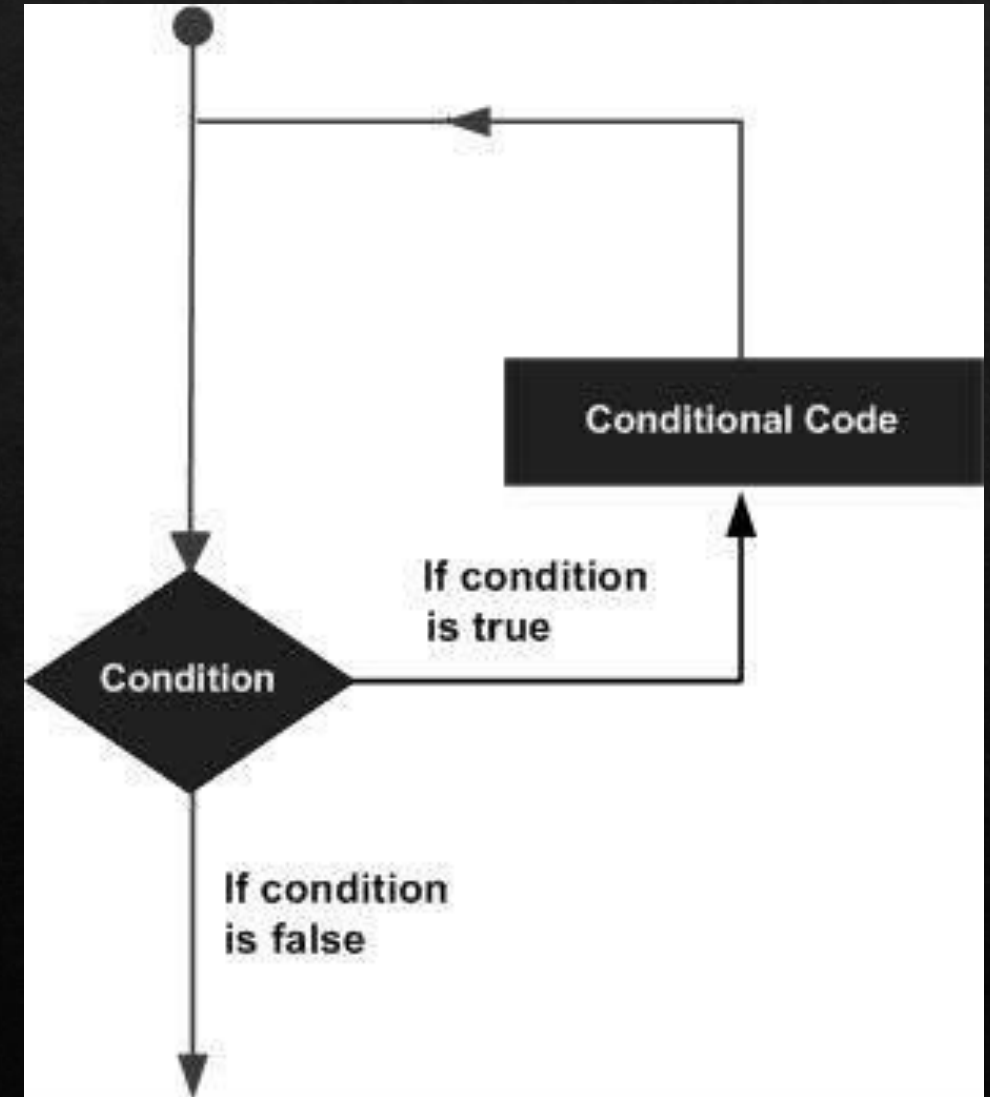
Loops

In general, statements are executed sequentially: The first statement in a function is executed first, followed by the second, and so on. There may be a situation when you need to execute a block of code several number of times.

A loop statement allows us to execute a statement or group of statements multiple times. The following diagram illustrates a loop statement –

In Python we have two types of Loop which are as follows

1. while loops
2. for loops



While Loop

A **while** loop statement in Python programming language repeatedly executes a target statement as long as a given condition is true.

While Loop syntax

```
while expression:  
    statement(s)
```

While else Loop syntax

```
while expression:  
    statement(s)  
else:  
    statement
```

Single line while statement

```
while expression: statement(s)
```

Nested While Loop

```
while expression:  
    while expression:  
        statement(s)  
    statement(s)
```


Example of While Loop

Loop Example

```
i = 0
while (i <= 10):
    print ('The count is:', i)
    i = i + 1
```

Loop else Example

```
i = 0
while i < 10:
    print (count, " is less than 5")
    i = i + 1
else:
    print i, " is not less than 5"
```

For Loop

A **while** loop statement in Python programming language repeatedly executes a target statement as long as a given condition is true.

For Loop syntax

```
for value in sequence:  
    statement
```

For else Loop syntax

```
for value in sequence:  
    statement  
else:  
    statement
```

```
for iterating_var in sequence:  
    for iterating_var in sequence:  
        statements(s)  
statements(s)
```

Loop control Statements

1. break
2. continue
3. pass

Thanks for Reading



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