

Loop Control Statements

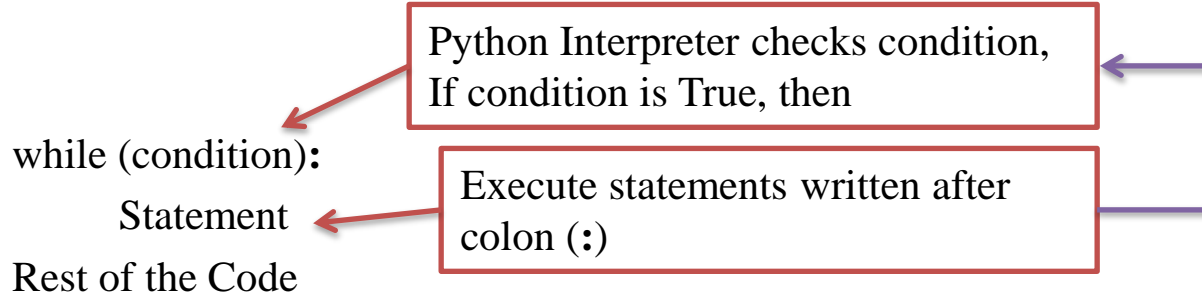
Loop control statements are used when a section of code may either be executed a fixed number of times, or while some condition is true.

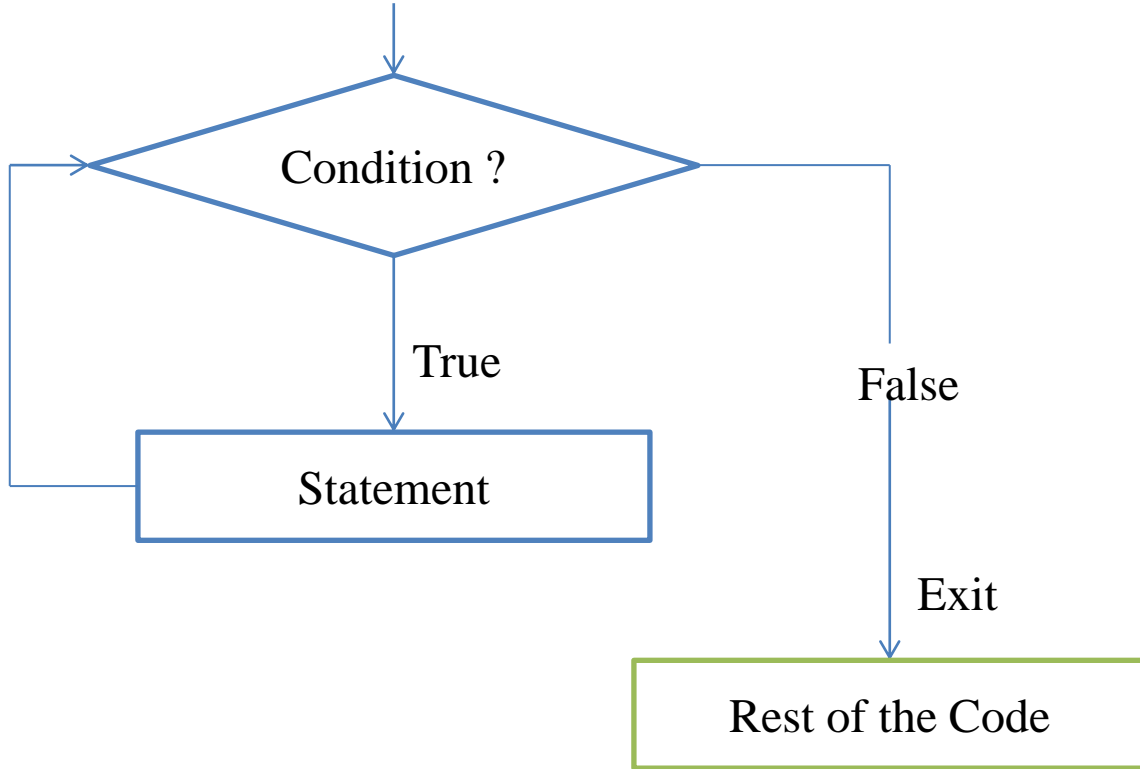
- While
- For

while Loop

The while loop keeps repeating an action until an associated condition returns false.

Syntax:



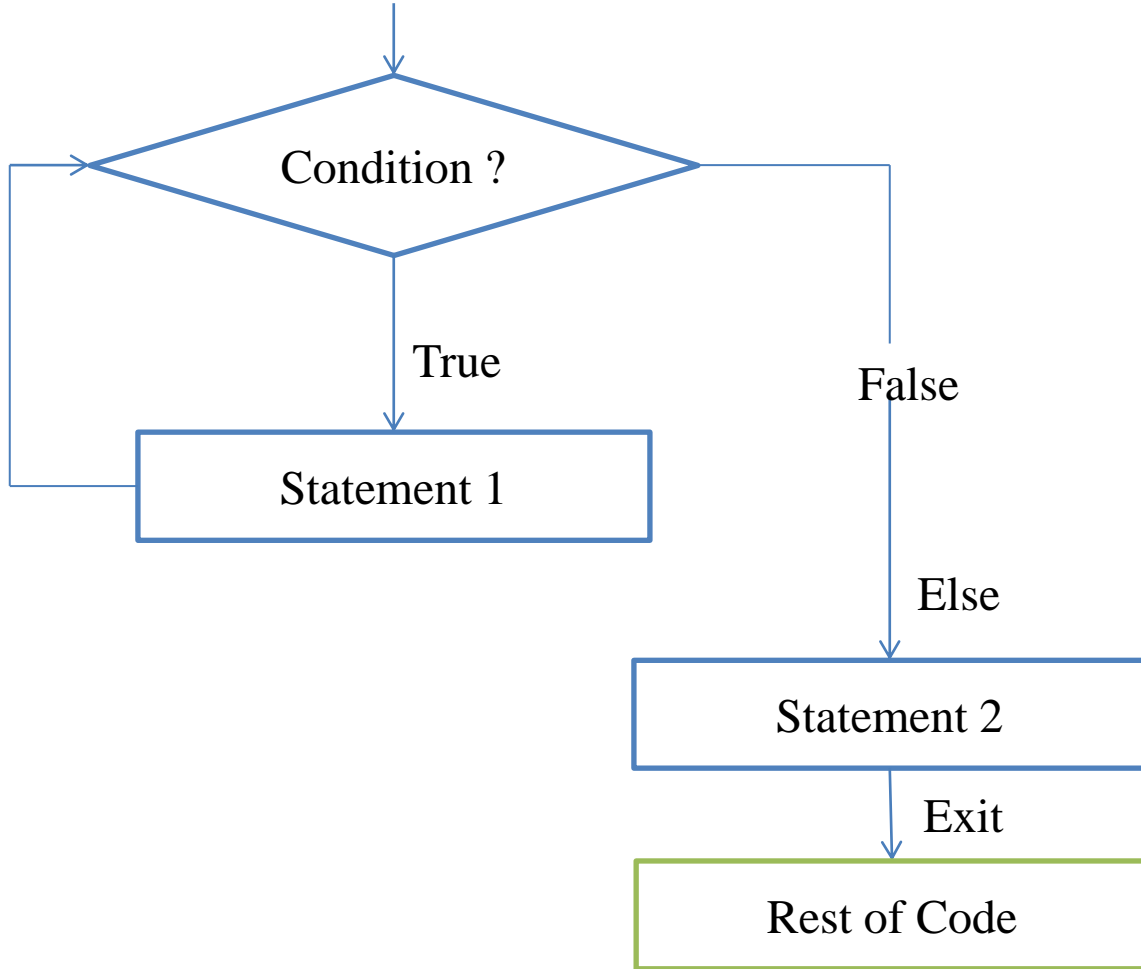


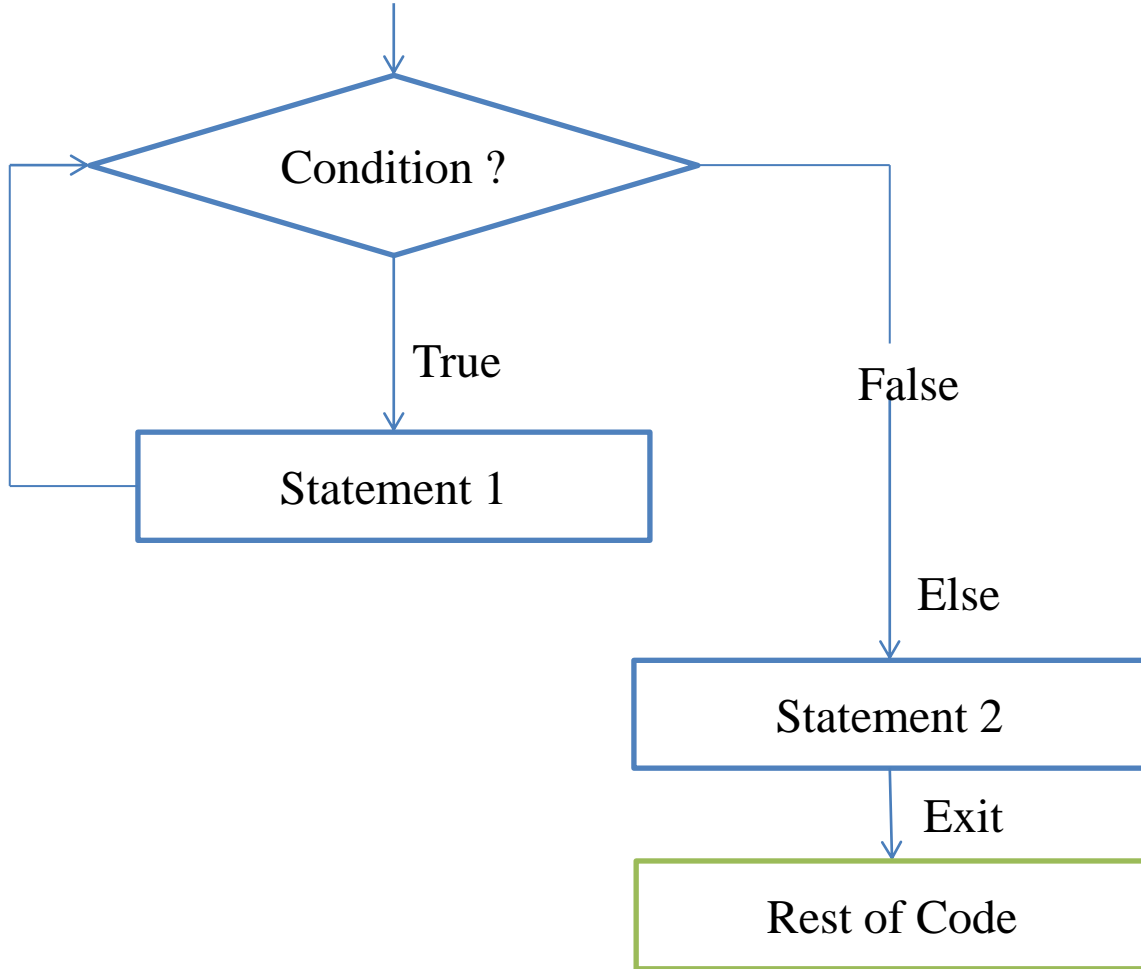
while Loop with else

This repeatedly tests the condition and, if it is True, executes the Statement 1; if the condition is False (which may be the first time it is tested) the Statement 2 of the else clause, is executed and the loop terminates. The else suite will be always executed irrespective of the statements in the loop are executed or not.

Syntax:

```
while (condition):  
    Statement 1  
else:  
    Statement 2  
Rest of the Code
```





Infinite while Loop

Syntax:

```
while (True):
```

```
    Statement
```

```
Rest of the Code
```

```
while (True):
```

```
    Statement
```

```
    if(condition):
```

```
        break
```

```
Rest of the Code
```

Nested While Loop

while(condition):

 Statements

 while(condition):

 Statements

 Statements

Rest of Code