



FOR LOOP

ITERATION STATEMENT

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TOPIC OUTLINE

for Loop

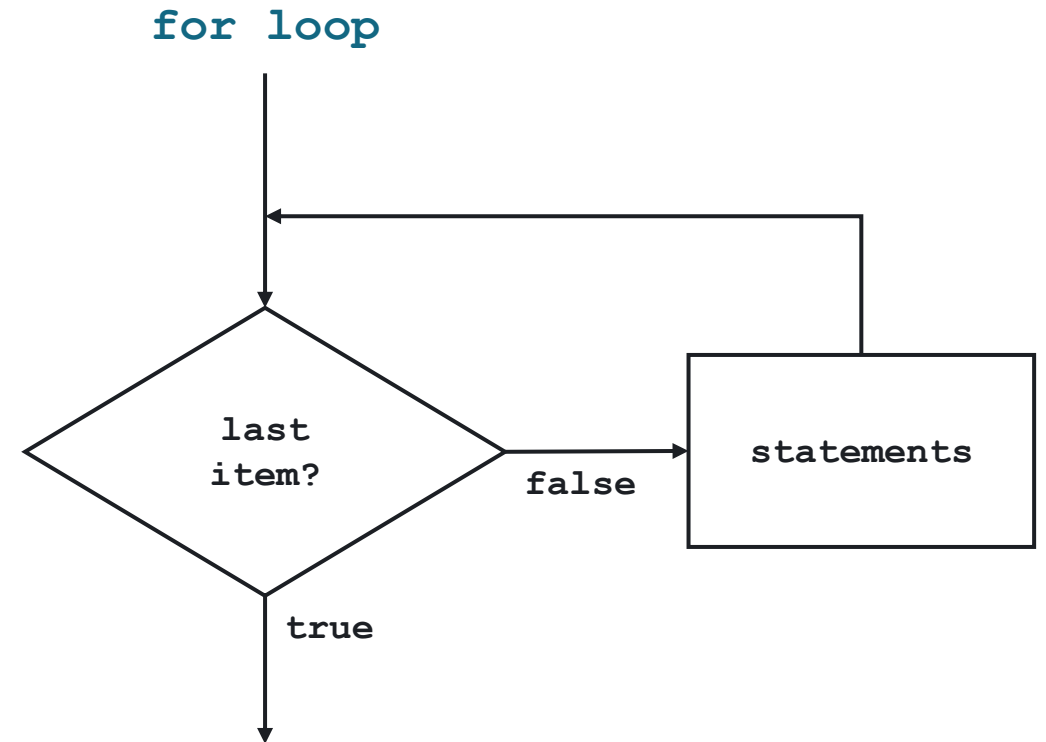


FOR LOOP



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A for loop is a control flow statement that allows you to iterate over a sequence (such as a **list**, **tuple**, **string**, or **range**) and execute a block of code for each item in the sequence.



FOR LOOP

Syntax of the `for` loop statement:

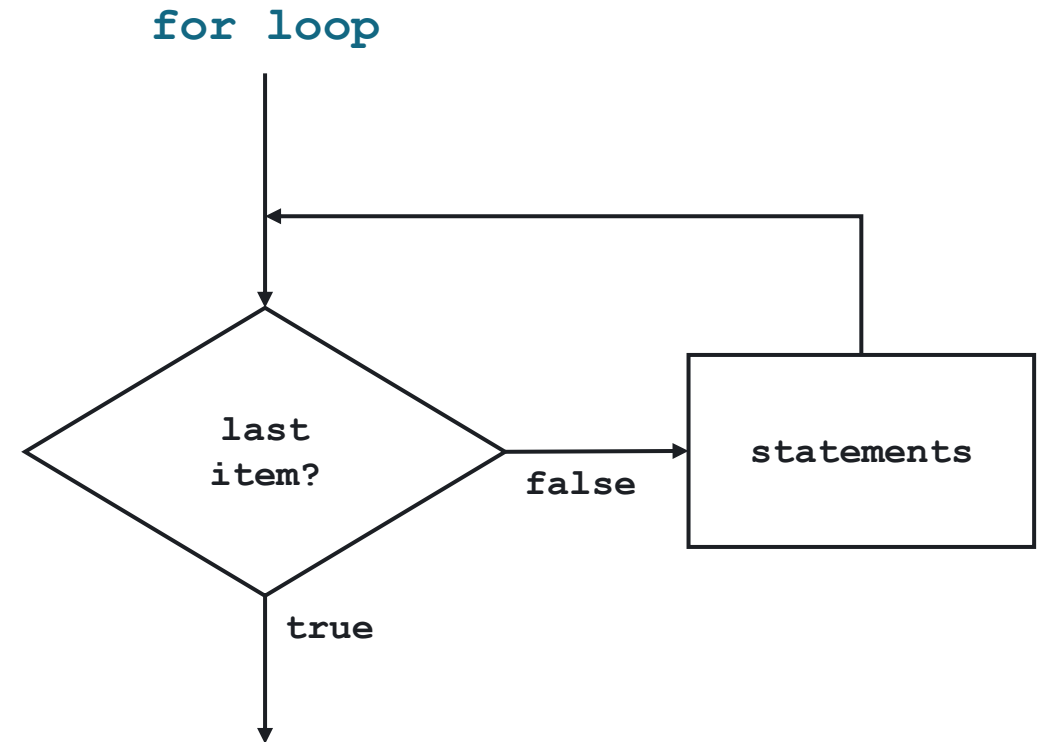
```
for item in sequence:
```

```
    // repeat code for each item
```

where:

item – is a variable that take the value of each element

sequence – an iterable object (e.g., list, tuple, string, or range)



ITERATING OVER A LIST

```
fruits = ["apple", "banana", "cherry"]  
  
for fruit in fruits:  
    print(fruit)
```

output:

apple

banana

cherry



USING RANGE

```
for i in range(5):  
    print(i)
```

output:

0

1

2

3

4



ITERATING OVER A STRING

```
for char in "Python":  
    print(char)
```

output:

P

y

t

h

o

n



LABORATORY

