FOR LOOP
ITERATION STATEMENT

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TOPIC OUTLINE

for Loop
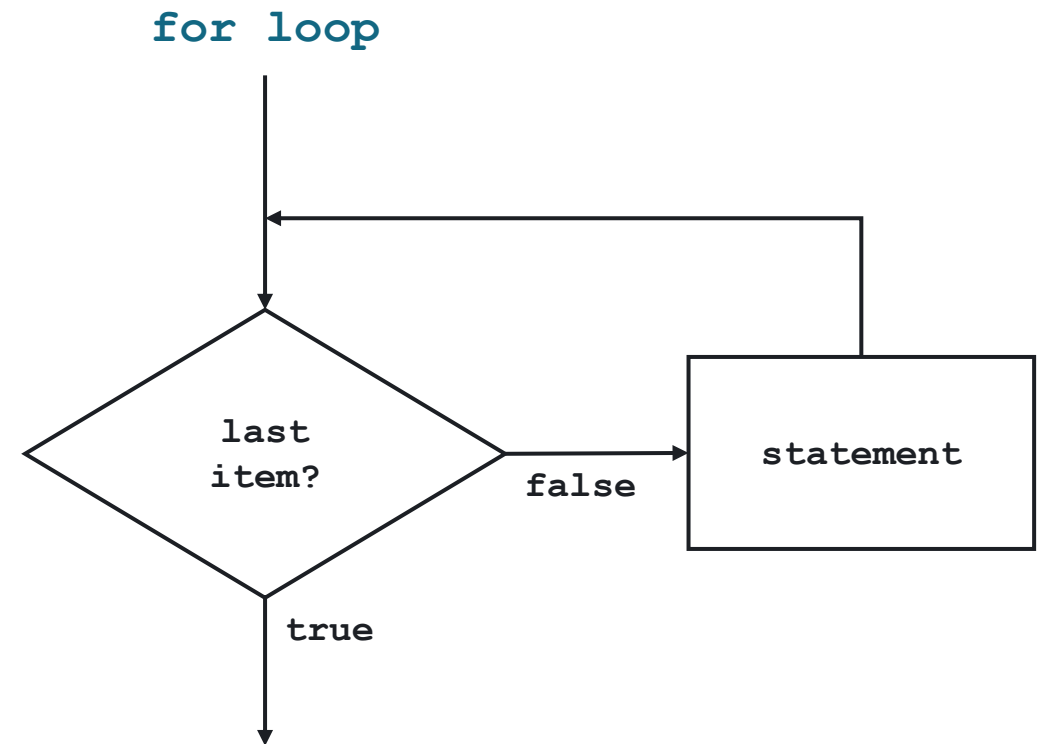
FOR LOOP

FOR LOOP

```
for loop
```

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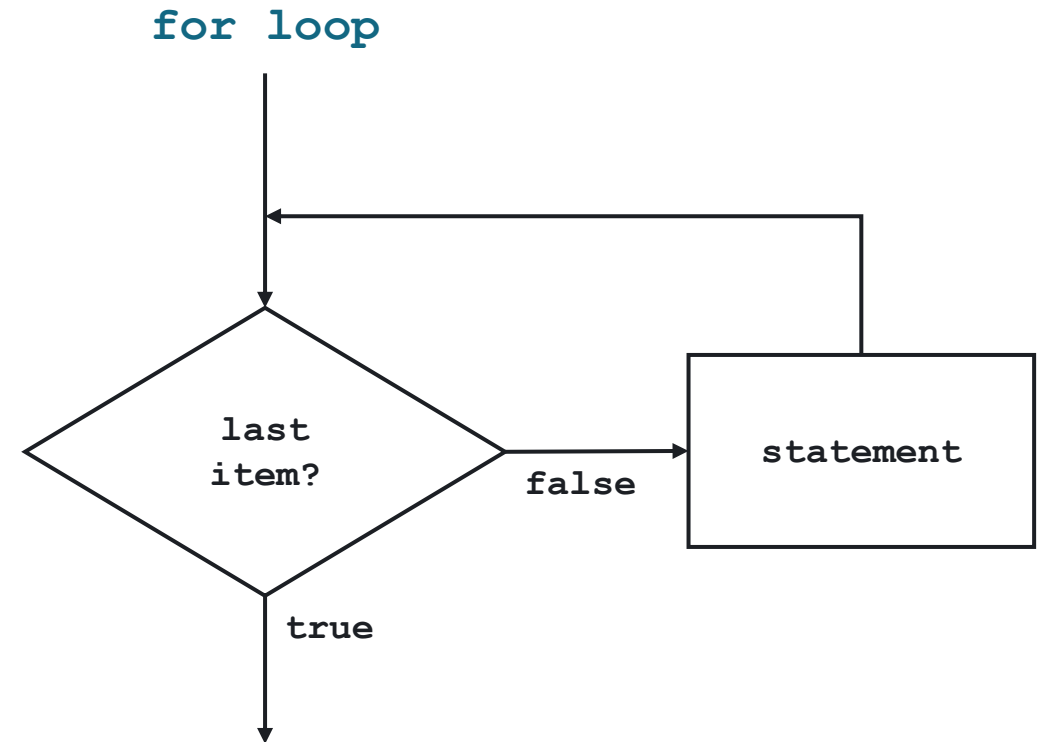
FOR LOOP

syntax

```
for item in sequence:

    // repeat code for each item
```

where

item – a variable that take the value of each element

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

for loop

ITERATING OVER A LIST

```python
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

```python
for char in "Python":

    print(char)
```

```
# output:

P

y

t

h

o

n
```

LABORATORY