



# FOR LOOP

## ITERATION STATEMENT

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# TOPIC OUTLINE

for Loop



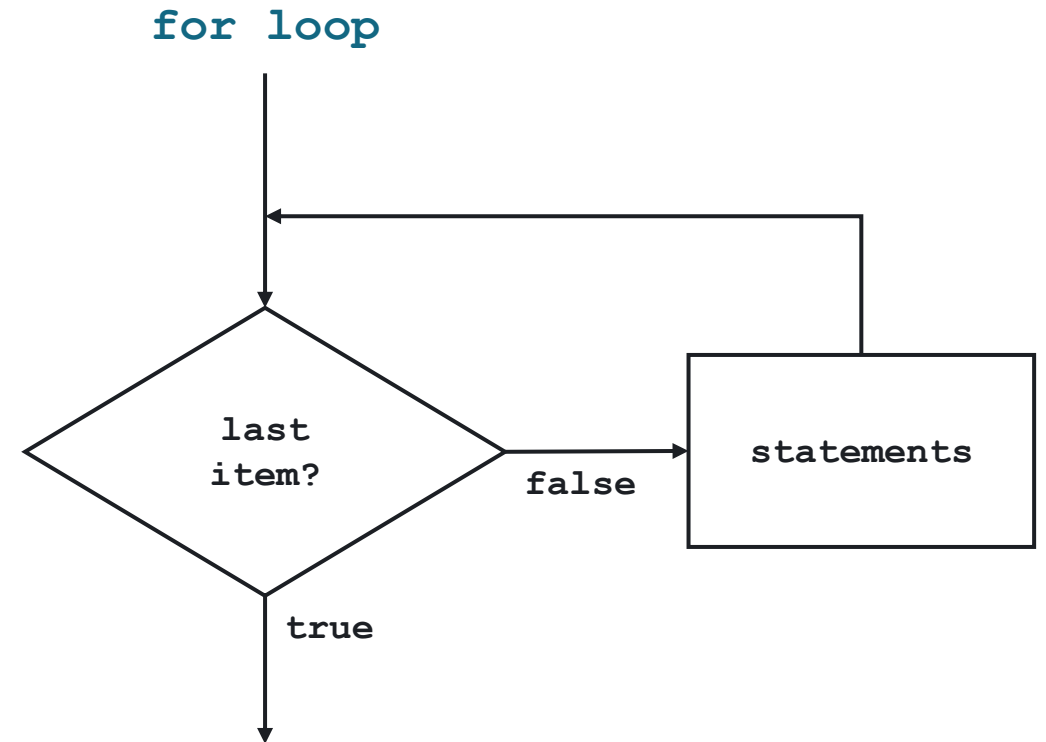
# FOR LOOP



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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

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Syntax of the `for` loop statement

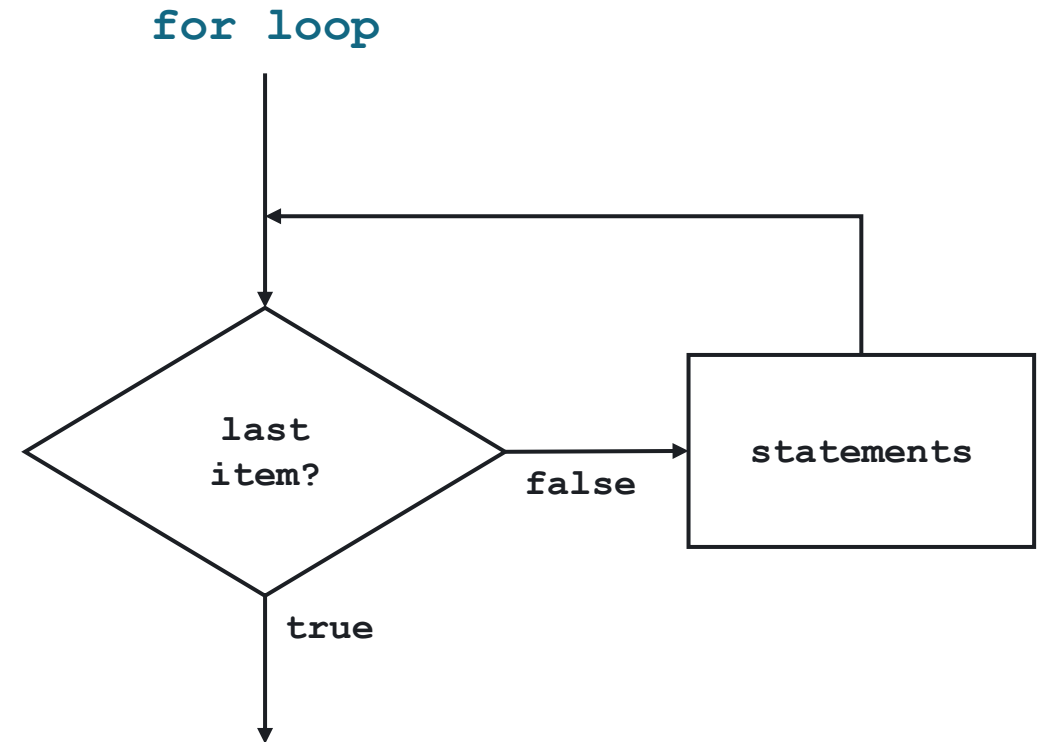
```
for item in sequence:
```

```
    // 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

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```
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

