FOR LOOP
ITERATION STATEMENT

prepared by:

Gyro A. Madrona
Electronics Engineer
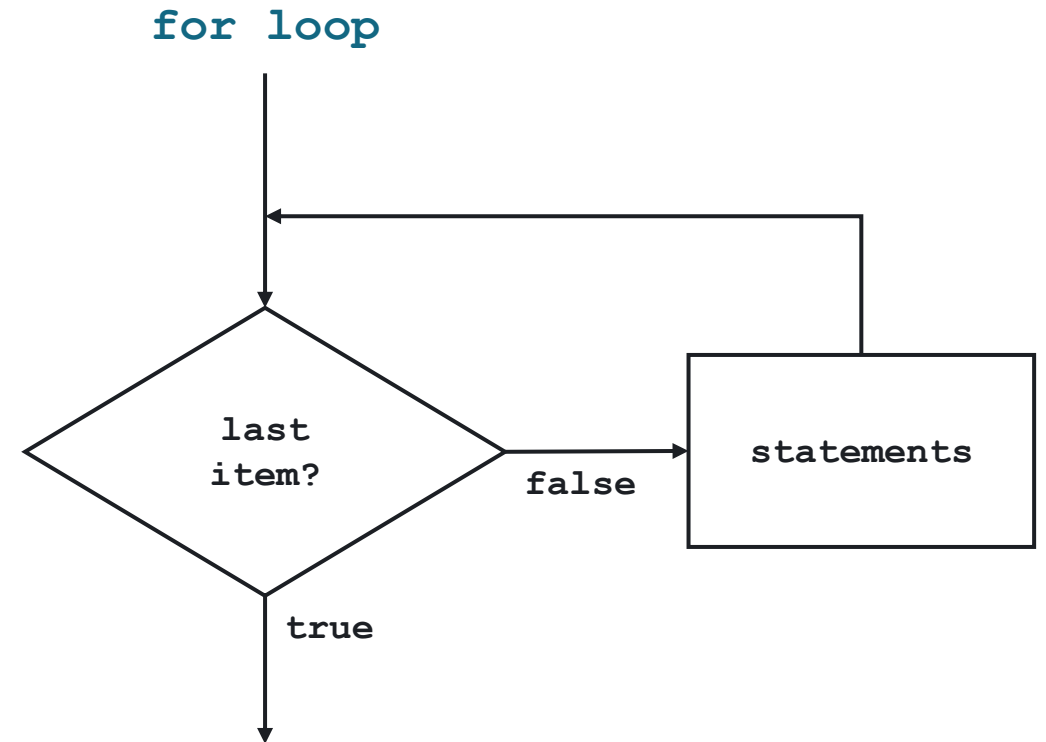
TOPIC OUTLINE

for Loop

FOR LOOP

FOR LOOP

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
```

```
last
item?   false   statements

true
```

FOR LOOP

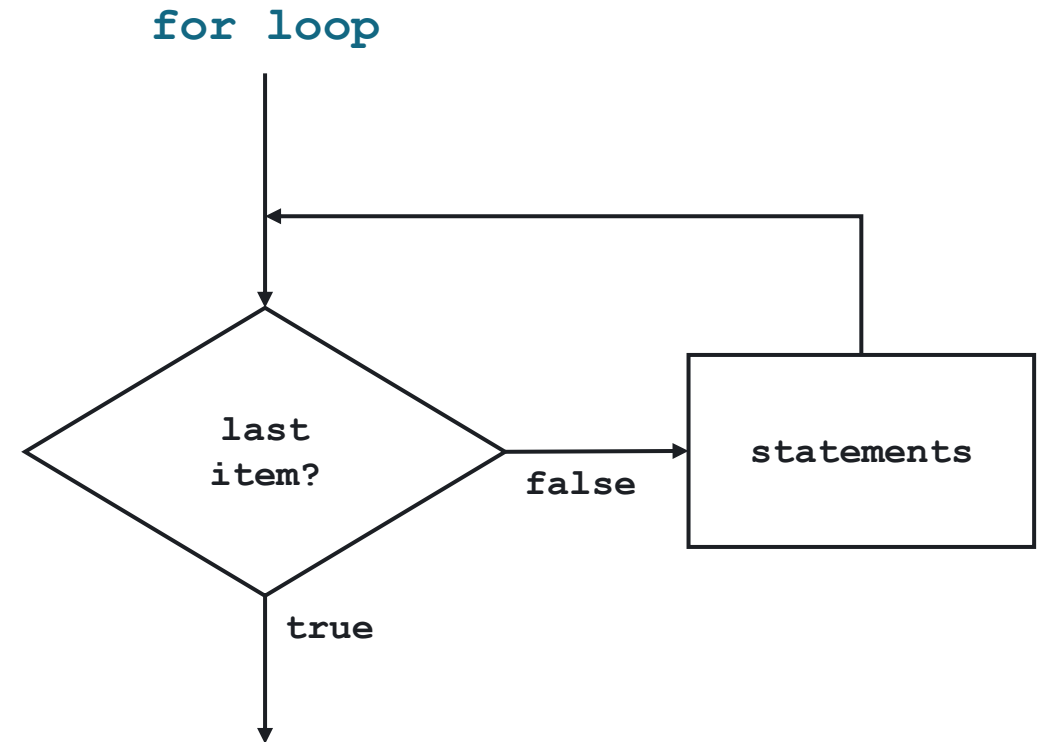Syntax of the **for** loop statement:

```
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`)

for loop

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

```python
for char in "Python":

    print(char)
```

```
# output:

P

y

t

h

o

n
```

LABORATORY