Loops

Introduce nonlinearity into programs
Repeatedly execute blocks of code
For-loops
While-loops
For-Loops

Repeats a block of code a specified number of times

Like printing a list of numbers

```
for i in range(n):
    print(i)
```
For-Loop Header

Begins with keyword, for

Loop variable

Keyword, in, precedes range
While-Loops

While loops are more flexible, but also more error-prone

Must initialize variable and set increment

\[
i = 0
\]

\[
while i < 10:
    print(i)
    i = i + 1
\]
Introduction to Computer Programming
CSCI-UA 2

Repetition Structures
For-Loops and While-Loops