```
for x in collection:
```

x

collection

x collection

Aim: How does the for loop work?

for loop:

Allows you to iterate through the elements of a ***collection*** one at a time.

Strings and lists are examples of python ***collections.***

Syntax:

```
for x in collection:
```

x is a **new variable** assigned to a **copy** of each subsequent element in collection.

Changing x **will not** modify the corresponding value in collection.

Aim: How does the for loop work?

Questions to ponder:

Why does the while loop have more lines?

What is happening to x in the for loop?

Can you tell what index you are looking at in the for loop?