

List and Loops Activity

Exercise 1:

Suppose that there is a list of strings defined, called samples. Define the list so that some strings have only one or two characters and some strings have more. Write a loop that prints out all the strings whose length is greater than two.

SOLUTION:

```
>>> samples = ['at', 'bat', 'c', 'dogs', 'eagles', 'go', 'k', 'snake', 'turtle', 'wh']
>>> for elem in samples:
>>>     if len(elem) > 2:
>>>         print(elem)
>>>
```

Based on the samples list given above, the following items should be printed:

```
bat
dogs
eagles
snake
turtle
```

Your results should vary from this list because your samples list should be different.

Exercise 2:

Again, suppose that there is a list of strings defined, called samples. Define the list so that some strings have only one or two characters and some strings have more than five. Write a loop that prints out all the strings whose length is greater than two and whose length is less than five.

SOLUTION:

```
>>> samples = ['at', 'bat', 'c', 'dogs', 'eagles', 'go', 'k', 'snake', 'turtle', 'wh']
>>> for elem in samples:
>>>     if len(elem) > 2 and len(elem) < 5:
>>>         print(elem)
>>>
```

Based on the samples list given above, the following items should be printed:

```
bat
dogs
```

Your results should vary from this list because your samples list should be different.

This activity and review has given you an opportunity to write a couple of simple loops using lists. We will continue to work with lists as we move forward with scripting language.