# 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.

Samples = [‘at’, ‘bat’, ‘c’, …..] # make up a list of at list 10 entries. Then write your loop to use the list samples.

Submit your list, your code, and an example run.

﻿# Exercise 1

samples = ["at", "c", "cat", "rat",

"hat", "it", "fat", "smith",

"sat", "vat"]

# loop to use this list

for item in samples:

if len(item) > 2: print("Item is: " + item)

**Run:**

﻿IPython 7.8.0 -- An enhanced Interactive Python.

samples = ["at", "c", "cat", "rat",

"hat", "it", "fat", "smith",

"sat", "vat"]

# loop to use this list

for item in samples:

if len(item) > 2: print("Item is: " + item)

Item is: cat

Item is: rat

Item is: hat

Item is: fat

Item is: smith

Item is: sat

Item is: vat

# 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.

Samples = [‘at’, ‘book’, ‘c’, ‘dog’, ‘elephant’, ……] # make a list with at least 10 entries with varying lengths.

Then write your loop to use the list samples. Submit your list, your code, and an example run.

﻿# Exercise 2

samples = ["at", "book", "c", "dog",

"elephant", "cat", "telephone", "tv",

"hammer", "abc"]

# loop to use this list

for item in samples:

if len(item) > 2 and len(item) < 5: print("Item is: " + item)

**Run:**

samples = ["at", "book", "c", "dog",

"elephant", "cat", "telephone", "tv",

"hammer", "abc"]

# loop to use this list

for item in samples:

if len(item) > 2 and len(item) < 5: print("Item is: " + item)

Item is: book

Item is: dog

Item is: cat

Item is: abc

**Please combine files in a single text file for submission; include both code and responses.**