

# Lab-5.3-4

# Python Lists and Loops

# Lab Objectives

Practice the use of the python type ‘list’ and the for and while loops.

# Tasks

1. Write a Python program to sum all the items in a list.
2. Write a Python program to get the largest number from a list.
3. Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings.
   1. Sample List: ['abc', 'xyz', 'aba', '1221']
   2. Expected Result: 2
4. Write a Python function that takes two lists and returns True if they have at least one common member.
5. Write a Python program to print the numbers of a specified list after removing even numbers from it.
6. Write a Python program to reverse strings in a given list of string values.
7. Create a small rock paper scissors game that does the following:
   1. Asks the user for ‘r’, ‘p’ or ‘s’ for input
   2. Chooses ‘r’,’p’ or ‘s’ on a loop (meaning each game it peeks the next one)
   3. Tells you if you win or lose
   4. Keeps score between the user and the computer and prints it every round
   5. Starts a new round every time

Example:

Please choose rps:

R

I chose R:

Tie!

Comp: 0, You:0

Please choose rps:

S

I chose P

You win

Comp:0 You:1

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