**Working with Lists \*\* Save all your programs \*\***

1. Write programs to solve each task.

a) Initialize a list with 5 names, then ask the user how many additional names they want to add to the list. Add these names to the end of the list. Print the contents of the list – all on one line – no brackets.

b) Roll a die until a 6 is rolled. Store all the dice rolls in a list and calculate the average. Print the average and all the dice rolls.

2. Use one of the three functions you wrote yesterday to help you solve each task.

a) Ask the user for the length of the list (n). Generate a linear list of n integers. Insert a zero after each even value. Print the new list.

b) Ask the user how many integers to read (n). Get the n integers from the user and store them in the list. Determine the three largest values. Print the results.

3. Do the following:

a) Write a function called get\_int() that reads positive integers from the user until the user enters -1. Store the values in a list and return this list to the main program.

b) Add error checking to this function.

c) Use this function to write a program that reads positive integers from the user until they enter -1. Once all of the values have been stored in a list, remove any value that is a multiple of 3 or 4. At the end of the program, print the original and new list.

d) Determine if the number of integers entered is a multiple of 5.