**ICS 108 – Object-Oriented Programming**

**Lab # 7 – Objects and Classes**

**Objectives:**

In this lab, the following topic will be covered:

1. Objects and Classes

**Task**

The bin packing problem is to pack the objects of various weights into containers. Assume each container can hold a maximum of 10 kg. The program uses an algorithm that places an object into the first bin in which it would fit. Your program should prompt the user to enter the total number of objects and the weight of each object. The program displays the total number of containers needed to pack the objects and the contents of each container.

Note: Using the Container class from previous lab, create an array list of objects to store the containers.

Here is a sample run of the program:

Enter the number of objects: 6

Enter the weights of the objects: 7 5 2 3 5 8

Container 0 contains objects with weights [7, 2]

Container 1 contains objects with weights [5, 3]

Container 2 contains objects with weights [5]

Container 3 contains objects with weights [8]