**ICS 108 – Object-Oriented Programming**

**Lab # 6 – Objects and Classes**

**Objectives:**

In this lab, the following topic will be covered:

1. Objects and Classes

**Task**

Design a class named **Container** to hold items of various weights. The class contains:

* An array list of integers to store the weights of items.
* The maximum weight (int).
* A constructor that constructs a container with specified maximum weight.
* A method named addItem that adds an item to the container if it would fit, otherwise it returns false:  
  public boolean addItem(int itemWeight)

Write a test program that creates a container with a maximum of 10 kg. Your program should prompt the user to enter the weight of an item then adds it to the container. Repeat for a few items. Finally display the contents of the container.