**ICS 201 – Introduction to Computing II**

**Lab # 24 – Generics**

**Objectives:**

In this lab, the following topic will be covered:

1. Generics

**Exercises**

Implement a queue capable of holding objects of an arbitrary type, T, by defining a Queue class that implements the queue with an ArrayList. A queue is a type of list where a new item will be added to the end of queue. Your class should support the following methods:

* add(item)—Adds a new item to the queue.
* remove()—Returns the first item from the queue. If the user attempts to remove from an empty queue, return null.

For example, if q is a queue defined to take Strings

q.add("X");

q.add("Y");

q.add("Z");

System.out.println(q.remove()); *// Returns X*

System.out.println(q.remove()); *// Returns Y*

System.out.println(q.remove()); *// Returns Z*

System.out.println(q.remove()); *// Returns null*