**ICS 108 – Object-Oriented Programming**

**Lab # 14 –** **Interfaces**

**Objectives:**

In this lab, the following topic will be covered:

1. Interfaces

**Task**

Design a class named **Point** to represent a point that has:

* The class implements the **Comparable<Point>** interface.
* The data fields x and y that represent the coordinates (int).
* The two-argument constructor.
* Override the compareTo method that depends on x then by y.
* Override the equals method.
* Override the toString method.

In the test class:

* Create an array of random points.
* Display the array.
* Sort the array.
* Display the sorted array.