**ICS 108 – Object-Oriented Programming**

**Lab # 5 – Objects and Classes**

**Objectives:**

In this lab, the following topic will be covered:

1. Objects and Classes

**Task**

Design a class named **Point** to represent a point with x- and y-coordinates. The class contains:

* The data fields x and y that represent the coordinates with getter methods.
* A no-argument constructor that creates a point (0, 0).
* A constructor that constructs a point with specified coordinates.
* A method named distance that returns the distance from this point to a specified point of the Point type.

Write a test program that creates the two points (0, 0) using the no-argument constructor and (10, 30.5) and displays the distance between them using the distance method.