**Lab-6**

**Out Date:** 10/30/2018 (Monday)

**Due Date:** 10/30/2018 (Monday) within class

**Problem Statement:** Write a program to compute distance between 2 points in 2D space and 3D space. Your completed program should generate output similar to the following:

> Please enter the x, y coordinates for the first point in 2D P1<x, y>: 1 1

> Please enter the x, y coordinates for the first point in 2D P2<x, y>: 2 3

> Please enter the x, y, z coordinates for the first point in 3D P1<x, y, z>: 1 1 1

> Please enter the x, y, z coordinates for the second point in 3D P2<x, y, z>: 2 3 4

> Distance (P1, P2) in 2D: 2.2360

> Distance (P1, P2) in 3D: 3.7416

The class structures and necessary files are attached here.

**Scoring Distribution [100 points]**

* 80 points for implementing the above mentioned requirements.
* 10 points for appropriate comments
* 10 points for programing style

**Blackboard Submission**

1. Submit the necessary files
2. Zip the files
3. Upload the zip file to Blackboard