CSE115L

**Structure**

1. Do the following all parts in the same program.

1. Write down a structure named **Point** that will be used to store x, y coordinates of a P**oint** in coordinate geometry.
2. Using the **Point** structure take input of three points of a triangle and calculate the Euclidian distance between them. Euclidian distance (E.D.) between two points P(x1, y1) and Q(x2, y2) is defined as follows:

 . . = (x1 − x2) + (y1 − y2)

2. Do the following all parts in the same program.

1. Write down a structure named **Point** that will be used to store x, y coordinates of a P**oint** in coordinate geometry.
2. Write down a function **calDist** that will that will accept two **Point** variables as parameters and return the Euclidian distance between them.
3. Using the **Point** structure take input of two points and calculate Euclidian distance between them using the above calDist function. Finally print the distance.

3. (a) Write down a structure capable of storing following information about a student of a university:

* Student ID number
* Marks in two subjects
* Grades in those two subjects

b) Use the above structure to take necessary information of ONE student as input, calculate grades in each subject using a user defined function. The grade chart is as follows:

1.  90 or more
2.  80 – less than 90
3.  70 – less than 80
4.  60 – less than 70

F  below 60