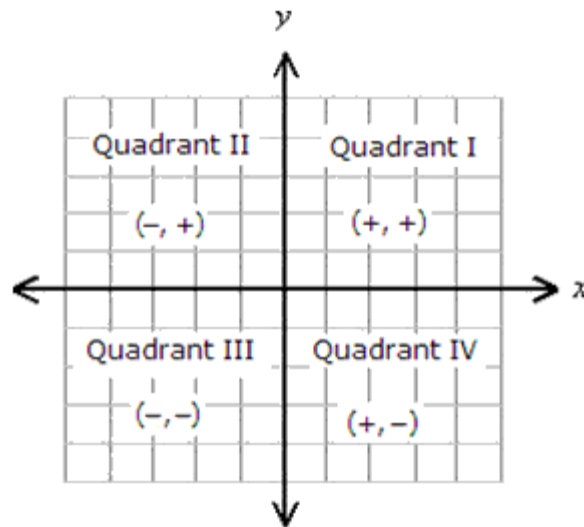# Assignment
Object Oriented

Define java class called **Point,** which contains the following methods and attributes:

a. xcoord, ycoord as private float variables. (1 p)

b. Constructor method, invokes setpoint method. (1 p)

c. setpoint() method which defines a default value of a point (0,0). (2 ps)

d. setx(), sety() methods to update the value of the variables or parameters. (1 p)

e. getx(), gety() methods to retrieve the value of the variables or parameters. (1 p)

f. middle_point() method which calculates the middle point between two points by using the following equation: (Bonus 2ps)

$$\text{The middle point} = (\ (x_1+x_2)/2\ ,\ (y_1+y_2)/2\ ).$$

g. print() method to print any point and determines in which quarter in Cartesian Coordinate System the point is located. (2 ps)

h. Define a point object in the main method, and print the point and in which quarter in Cartesian Coordinate System the point is. (2 ps)

The End