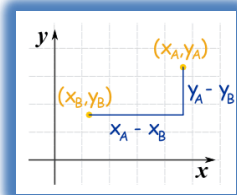


# Task1

## PART 1: Problem Description: The Distance Between two Points

Point is Represented By coordinates: The x-coordinate of point & the y-coordinate of point



$x_A$  means the x-coordinate of point A

$y_A$  means the y-coordinate of point A

1. The Distance Between the two points is:

$$c = \sqrt{(x_A - x_B)^2 + (y_A - y_B)^2}$$

Design a class, name it POINT that represents a Point as defined above.

Data Member		
1	x	Int : represent The x-coordinate of point
2	y	Int : represent The y-coordinate of point
Methods		
1	POINT(String)	Add Constructor : 1. recive a string that represent a point 2. check if the string represent a point format as (x,y) then split the text to get the values of x & y
2	Distance(POINT P2)	$\sqrt{(x_A - x_B)^2 + (y_A - y_B)^2}$

PART 2: Build a simple windows form that

- Allow the user to insert two POINTS, the user have to insert values in this format :(x1,y1)(x2,y2) and have to be notified if not. For Example: POINTS: (-9,7) (-3,-2)
- Split string that inserted based on the following delimiters:{'(', ')', ',', '\t'}
- Each item generated after the split have to be represent a coordinate

The x-coordinate of point 1 = -9.  
The y-coordinate of point 1 = 7.  
The x-coordinate of point 2 = -3.  
The y-coordinate of point 2 = -2.