

Ex.No: 2c	<b>DISTANCE BETWEEN TWO POINTS</b>
Date :	

**AIM:**

To write a python program to calculate distance between two points.

**ALGORITHM:**

1. Start the program.
2. Enter the values of first coordinate and second coordinate.
3. Values of a and b get splitted by using split() and stored it in p1 and p2.
4. Distance between a and b is calculated by following formula  
$$\text{math.sqrt( ((int(p1[0])-int(p2[0]))**2)+((int(p1[1])-int(p2[1]))**2) )}$$
5. Stop the program.

## **Program:**

```
import math
a=input("enter first coordinate : ")
p1 = a.split(",")
b=input("enter second coordinate : ")
p2 = b.split(",")
distance = math.sqrt( ((int(p1[0])-int(p2[0]))**2)+((int(p1[1])-int(p2[1]))**2) )
print("distance between ", a,"and", b, "is",distance)
```

## **OUTPUT:**

enter first coordinate : 3,2

enter second coordinate : 2,6

distance between 3,2 and 2,6 is

4.123105625617661

**RESULT:**

Thus the python program to calculate distance between two points is executed.