

4. Decart coordinates

Create program which calculate the distance (D) between two points (A and B) in a plane, set with their coordinates

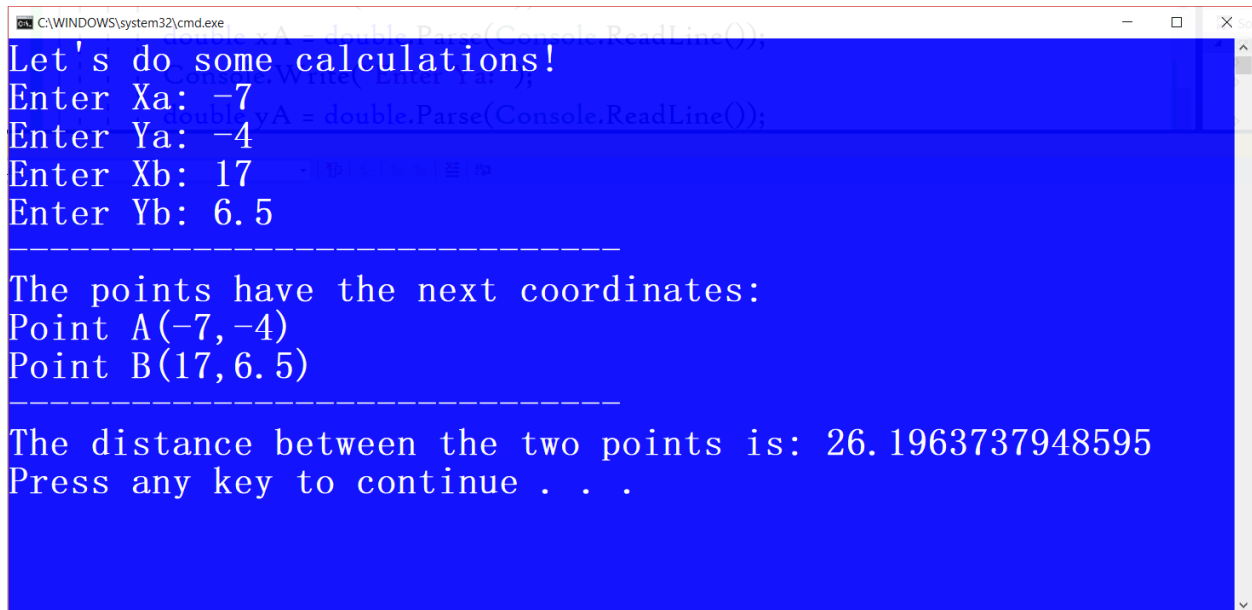
- A(Xa, Ya)

- B(Xb, Yb)

The formula for calculating the distance is:

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

At the end you program should have similar results :



```
C:\WINDOWS\system32\cmd.exe
Let's do some calculations!
Enter Xa: -7
Enter Ya: -4
Enter Xb: 17
Enter Yb: 6.5
-----
The points have the next coordinates:
Point A(-7,-4)
Point B(17,6.5)
-----
The distance between the two points is: 26.1963737948595
Press any key to continue . . .
```

Use this article to get you more familiar with the case:

<https://github.com/BaiGanio/PU-Intro-with-CSharp/blob/bgteam/Week%202/Homework/Utils/Cartesian%20coordinate%20system%206th%20grade.ppt>

