

CS 21 Introduction to Java Programming:

Project 10:

1. Write a class named Point which has the following data fields and methods

```
double x;  
double y;
```

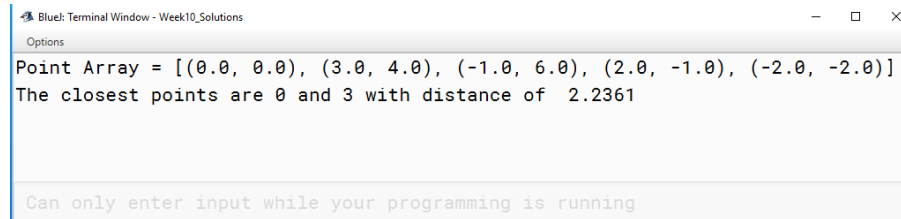
```
Point(int x, int y) { /* fill in your design */}  
public double distance(){ /* fill in your design */}
```

2. Design a class named ClosestPoints

In this class, you should

1. Declare an array of 5 points
(0, 0), (3, 4), (-1, 6), (2, -1), (-2, -2)
2. Write a program to find out what are the two points that have the closest distance among these five points.

3. Expected Results:



```
BlueJ: Terminal Window - Week10_Solutions  
Options  
Point Array = [(0.0, 0.0), (3.0, 4.0), (-1.0, 6.0), (2.0, -1.0), (-2.0, -2.0)]  
The closest points are 0 and 3 with distance of 2.2361  
  
Can only enter input while your programming is running
```