Find the closest pair of points:

Generate a random pair of 100 values. Apply the closest pair algorithm to find the closest pair (distance). A C++ Implementation from scratch implementation with neat documentations expected.

Solution:

- 1. A Class called Point created with two attributes X and Y Coordinates.
- 2. rand() function is used to generate random numbers. srand() used to generate different random number everytime.
- 3. An Array of 100 points have been generated randomly.
- 4. This array passed to closestPair function.
- 5. ClosestPair function approaches Brute force method to find the smallest distance between two points.
- 6. Distance formula is $sqrt((x2-x1)^2+(y2-y1)^2)$ Where: (x1,y1),(x2,y2) are the points.