- Name:Muhammad Uzair
- Roll no:466092
- Class:ME 15
- Section:B

Task no:2

Code:

```
#include <iostream>

#include <cmath> // Include the cmath library for the square root function


Int main() {

   Double x1, y1, x2, y2;


   // Input coordinates of the first point

   Std::cout << “Enter the x-coordinate of the first point: “;

   Std::cin >> x1;

   Std::cout << “Enter the y-coordinate of the first point: “;

   Std::cin >> y1;


   // Input coordinates of the second point

   Std::cout << “Enter the x-coordinate of the second point: “;

   Std::cin >> x2;

   Std::cout << “Enter the y-coordinate of the second point: “;

   Std::cin >> y2;


   // Calculate the distance using the distance formula

   Double distance = std::sqrt(std::pow(x2 – x1, 2) + std::pow(y2 – y1, 2));


   // Display the calculated distance
```

```
    Std::cout << “The distance between the two points is: “ << distance << std::endl;


    Return 0;
}
```

Result: