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*Task no:2*

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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:

```
Enter the x-coordinate of the first point: 5
Enter the y-coordinate of the first point: 7
Enter the x-coordinate of the second point: 8
Enter the y-coordinate of the second point: 9
The distance between the two points is: 3.60555
```

```
...Program finished with exit code 0
Press ENTER to exit console.□
```