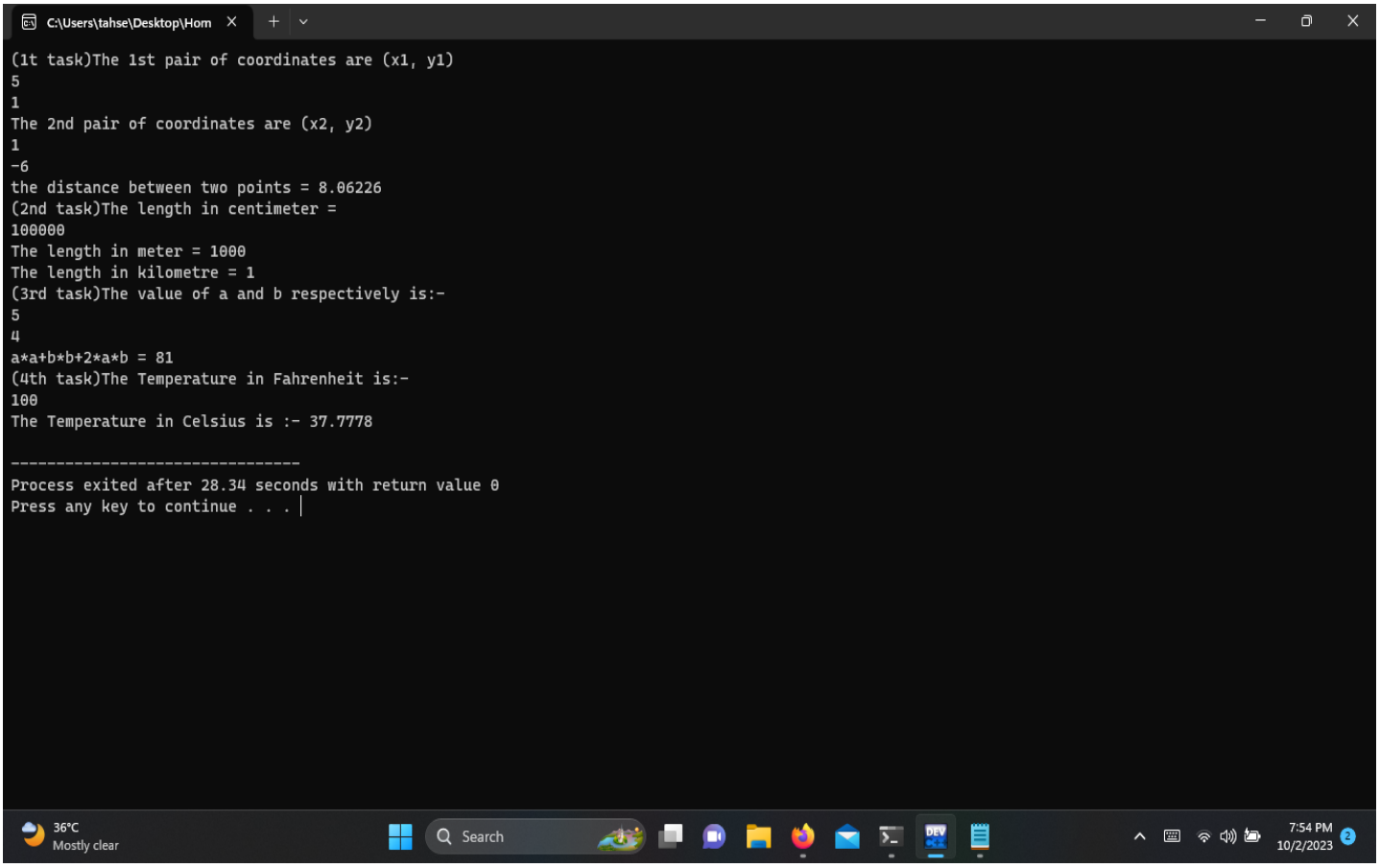
Programming Home task#1 C++ Coding

Mohammad Abdullah Tahseen- 462573- Sec-A

```
#include<iostream>
#include<cmath>
//I added library header cmath to define the square root sqrt() function
using namespace std;
int main()
{
double x1, x2, y1, y2, d;
cout<<"(1t task)The 1st pair of coordinates are (x1, y1)"<<endl;
cin>>x1;
cin>>y1;

cout<<"The 2nd pair of coordinates are (x2, y2)"<<endl;
cin>>x2;
cin>>y2;

d = sqrt((x2-x1)*(x2-x1) + (y2-y1)*(y2-y1));
cout<<"the distance between two points = "<<d<<endl;

//end of task1

double p;

cout<<"(2nd task)The length in centimeter = "<<endl;
cin>>p;

p/100;
```

```
cout<<"The length in meter = "<<p/100<<endl;

p/(100*1000);
cout<<"The length in kilometre = "<<p/(100*1000)<<endl;
//end of task2

double a, b;

   cout<<"(3rd task)The value of a and b respectively is:- "<<endl;
   cin>>a;
   cin>>b;

   a*a+b*b+2*a*b;
   cout<<"a*a+b*b+2*a*b = "<<a*a+b*b+2*a*b<<endl;

   //end of task3

   double C, F;

   cout<<"(4th task)The Temperature in Fahrenheit is:- "<<endl;
   cin>>F;

   C=(F-32)*5/9;
   cout<<"The Temperature in Celsius is :- "<<C<<endl;
   //end of task 4
   return 0;


}
```

OUTPUT: -


C:\Users\tahse\Desktop\Hom
(1t task)The 1st pair of coordinates are (x1, y1)
5
1
The 2nd pair of coordinates are (x2, y2)
1
-6
the distance between two points = 8.06226
(2nd task)The length in centimeter =
100000
The length in meter = 1000
The length in kilometre = 1
(3rd task)The value of a and b respectively is:-
5
4
a*a+b*b+2*a*b = 81
(4th task)The Temperature in Fahrenheit is:-
100
The Temperature in Celsius is :- 37.7778

Process exited after 28.34 seconds with return value 0
Press any key to continue . . .
36°C
Mostly clear
Search
7:54 PM
10/2/2023