# Computer systems and Programming (ME-XXX)

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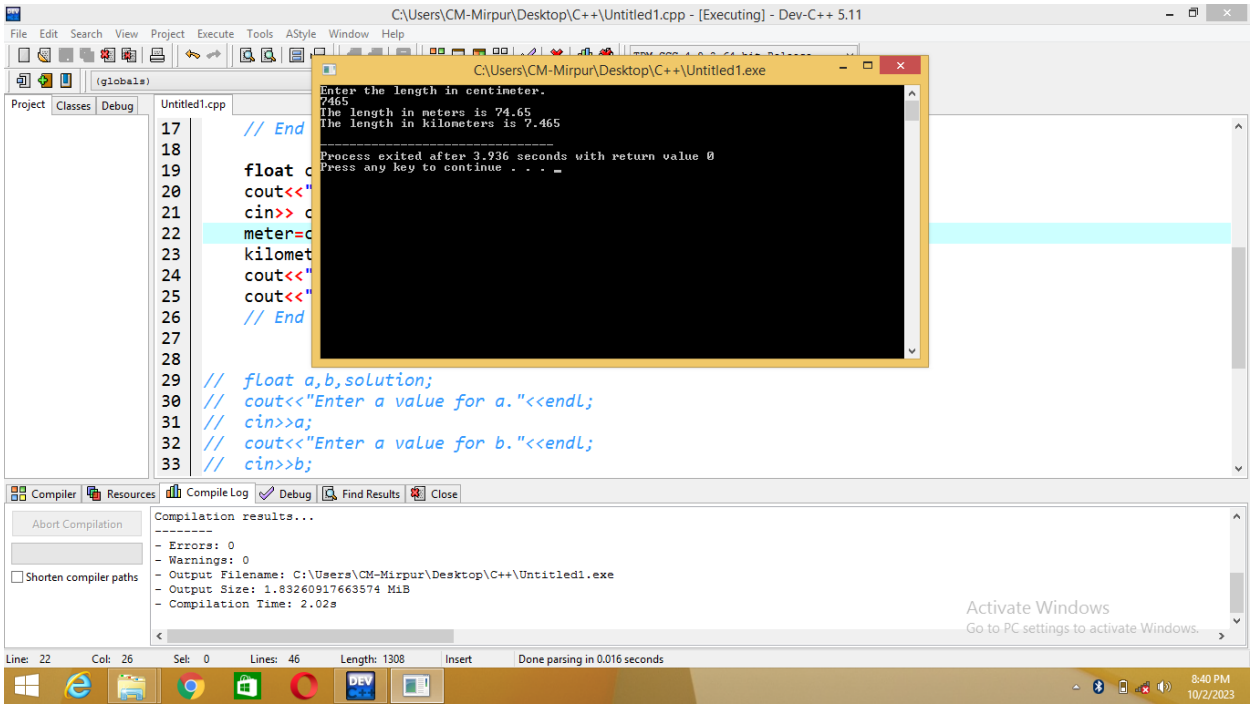
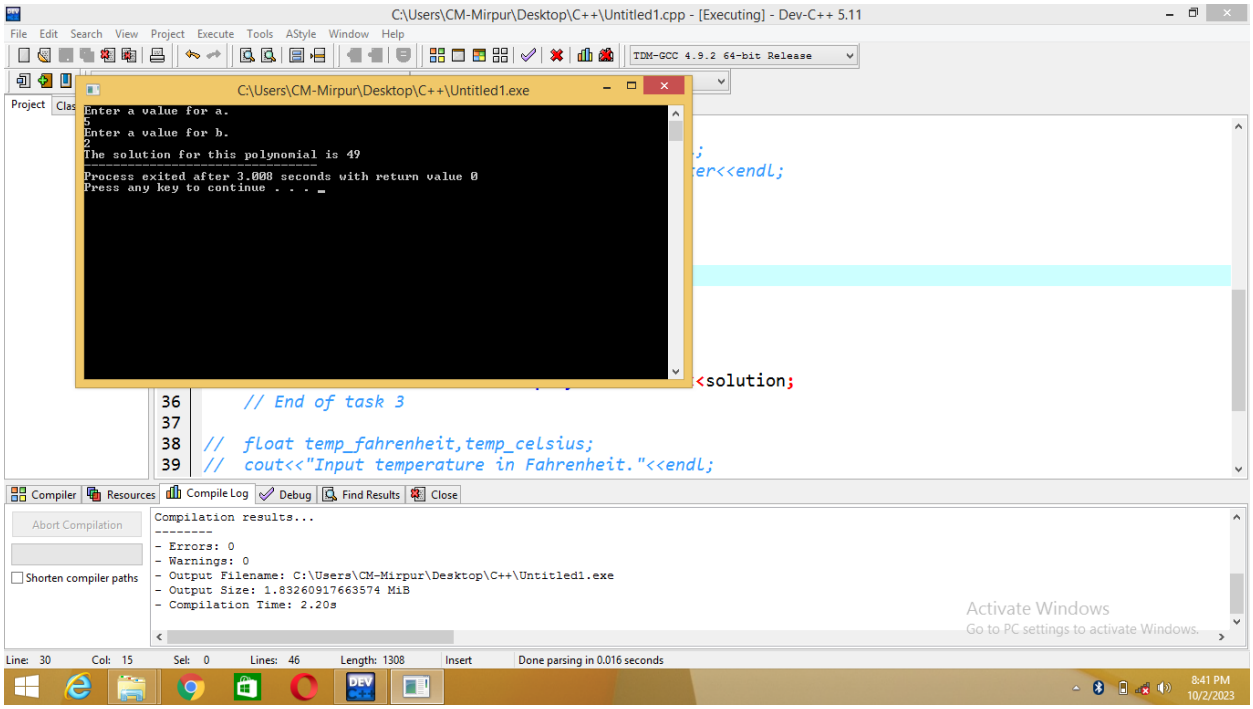
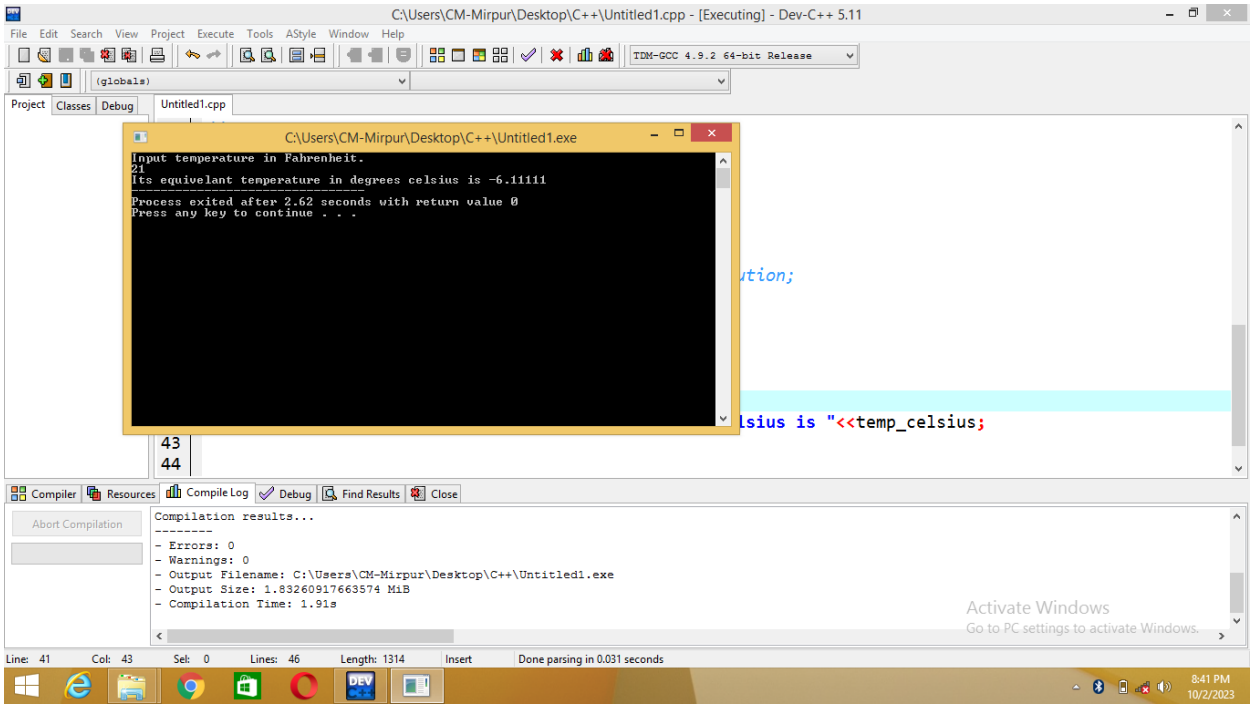
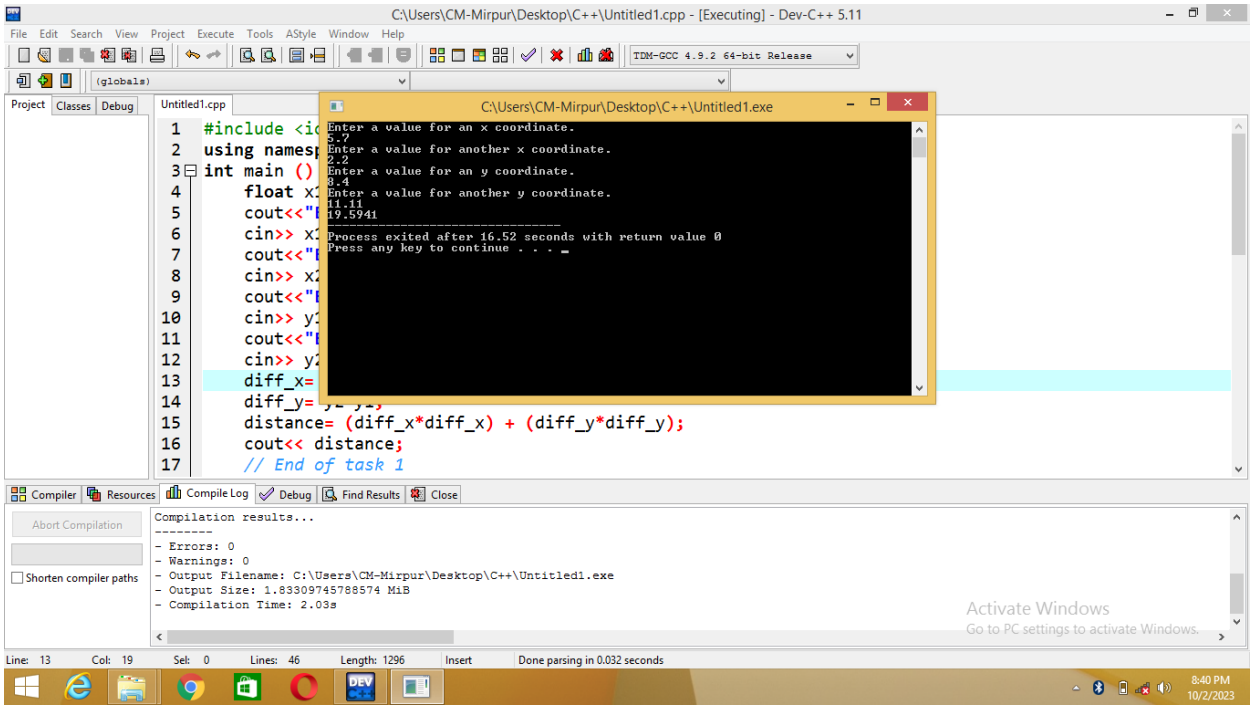
```
#include <iostream>
using namespace std;
int main ()    {
        float x1,x2,y1,y2,distance,diff_x,diff_y;
        cout<<"Enter a value for an x coordinate."<<endl;
        cin>> x1;
        cout<<"Enter a value for another x coordinate."<<endl;
        cin>> x2;
        cout<<"Enter a value for an y coordinate."<<endl;
        cin>> y1;
        cout<<"Enter a value for another y coordinate."<<endl;
        cin>> y2;
        diff_x= x2-x1;
        diff_y= y2-y1;
        distance= (diff_x*diff_x) + (diff_y*diff_y);
        cout<< distance;
        // End of task 1

//      float centimeter,meter,kilometer;
//      cout<<"Enter the length in centimeter."<<endl;
//      cin>> centimeter;
//      meter=centimeter/100;
```

```
//      kilometer=centimeter/1000;
//      cout<<"The length in meters is "<<meter<<endl;
//      cout<<"The length in kilometers is "<<kilometer<<endl;
        // End of task 2


//
//      float a,b,solution;
//      cout<<"Enter a value for a."<<endl;
//      cin>>a;
//      cout<<"Enter a value for b."<<endl;
//      cin>>b;
//      solution=(a*a)+(2*a*b)+(b*b);
//      cout<<"The solution for this polynomial is "<<solution;
        // End of task 3


        float temp_fahrenheit,temp_celsius;
        cout<<"Input temperature in Fahrenheit."<<endl;
        cin>> temp_fahrenheit;
        temp_celsius=(temp_fahrenheit-32)*5/9;
        cout << "Its equivelant temperature in degrees celsius is "<<temp_celsius;
return 0;
}
```


C:\Users\CM-Mirpur\Desktop\C++\Untitled1.cpp - [Executing] - Dev-C++ 5.11
C:\Users\CM-Mirpur\Desktop\C++\Untitled1.exe
Enter the length in centimeter.
7465
The length in meters is 74.65
The length in kilometers is 7.465
Process exited after 3.936 seconds with return value 0
Press any key to continue . . .
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\CM-Mirpur\Desktop\C++\Untitled1.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 2.02s
Activate Windows
Go to PC settings to activate Windows.
8:40 PM
10/2/2023


C:\Users\CM-Mirpur\Desktop\C++\Untitled1.cpp - [Executing] - Dev-C++ 5.11
C:\Users\CM-Mirpur\Desktop\C++\Untitled1.exe
Enter a value for a.
2
Enter a value for b.
2
The solution for this polynomial is 49
Process exited after 3.008 seconds with return value 0
Press any key to continue . . .
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\CM-Mirpur\Desktop\C++\Untitled1.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 2.20s
Activate Windows
Go to PC settings to activate Windows.
8:41 PM
10/2/2023


C:\Users\CM-Mirpur\Desktop\C++\Untitled1.cpp - [Executing] - Dev-C++ 5.11
C:\Users\CM-Mirpur\Desktop\C++\Untitled1.exe
Input temperature in Fahrenheit.
21
Its equivelant temperature in degrees celsius is -6.11111
Process exited after 2.62 seconds with return value 0
Press any key to continue . . .
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\CM-Mirpur\Desktop\C++\Untitled1.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 1.91s
Activate Windows
Go to PC settings to activate Windows.


C:\Users\CM-Mirpur\Desktop\C++\Untitled1.cpp - [Executing] - Dev-C++ 5.11
C:\Users\CM-Mirpur\Desktop\C++\Untitled1.exe
Enter a value for an x coordinate.
5.7
Enter a value for another x coordinate.
2.2
Enter a value for an y coordinate.
8.4
Enter a value for another y coordinate.
11.11
19.5941
Process exited after 16.52 seconds with return value 0
Press any key to continue . . .
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\CM-Mirpur\Desktop\C++\Untitled1.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 2.03s
Activate Windows
Go to PC settings to activate Windows.