

National University of Science and technology (NUST)

CS-114 - Fundamental of Programing Home Task # 01

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TASK 1:

```
C:\Users\ADMIN\OneDrive\Documents\L-1 H-1.exe
1 #include <iostream>
        2 using namespace std;
3 pint main(){
4
5
6
        cin>>x1;
cout<<"Enter y-cooordinate of First point(y1)";
Process exited after 7.887 seconds with return value 0
Press any key to continue . . .</pre>
7
8
        cin>>y1;
        cout<<"Enter x-coordinate of Second point(x2):";</pre>
9
10
        cin>>x2;
11
        cout<<"Enter y-coordinate of Second point(y2):";</pre>
12
        cin>>y2;
13
        d=(x2-x1)^2+(y2-y1)^2;
14
        cout<<"d=(x2-x1)^2+(y2-y1)^2="<<d;
15
        return 0;
16 L
```

TASK 2:

```
1 #include <iostream>
     using namespace std;
 3 □ int main () {
 4
         int a = 100; //suposing a number 100
 5
          float L1;
 6
         cout<<"Length in Centimeters : ";// Inputting length in Centimeters</pre>
 7
         cin>> L1;
          cout<<"Length in Meters = "<<L1/a<< endl; // Declaring Length in Meters</pre>
 8
          cout<<"Length in Kilometers = "<< L1/100000<<endl; // Declaring Length in Kilometers</pre>
9
10
         return 0;
11 |
         ■ Select F:\Semester 1\Computer Programming(C++)\Lab Work\aloo cholay.exe
                                                                                                      X
        Length in Meters = 1
        Length in Kilometers = 0.001
        Process exited after 5.37 seconds with return value 0
         Press any key to continue \dots
```

TASK 3:

```
1 #include <iostream>
      using namespace std;
  3 ☐ int main(){
            float a;
  6
            cout<<"Enter value of a : "; //Inputting value of a</pre>
  8
            cout<<"Enter value of b : ";// Inputting value of b</pre>
  9
            cin>> b;
 10
            cout << a^2 + 2ab + b^2 = << (a * a) + (2 * a * b) + (b * b) << end]; // applying formula and getting desired result
 11
            return 0;
 12
 13 L }
              ■ F:\Semester 1\Computer Programming(C++)\Lab Work\Chhana chaat.exe
                                                                                                                        Enter value of a : 123
Enter value of b : 123
a^2 + 2ab + b^2 = 60516
               rocess exited after 6.878 seconds with return value 	heta ress any key to continue . . .
```

TASK 4: