Lab Manual 1:

Home task

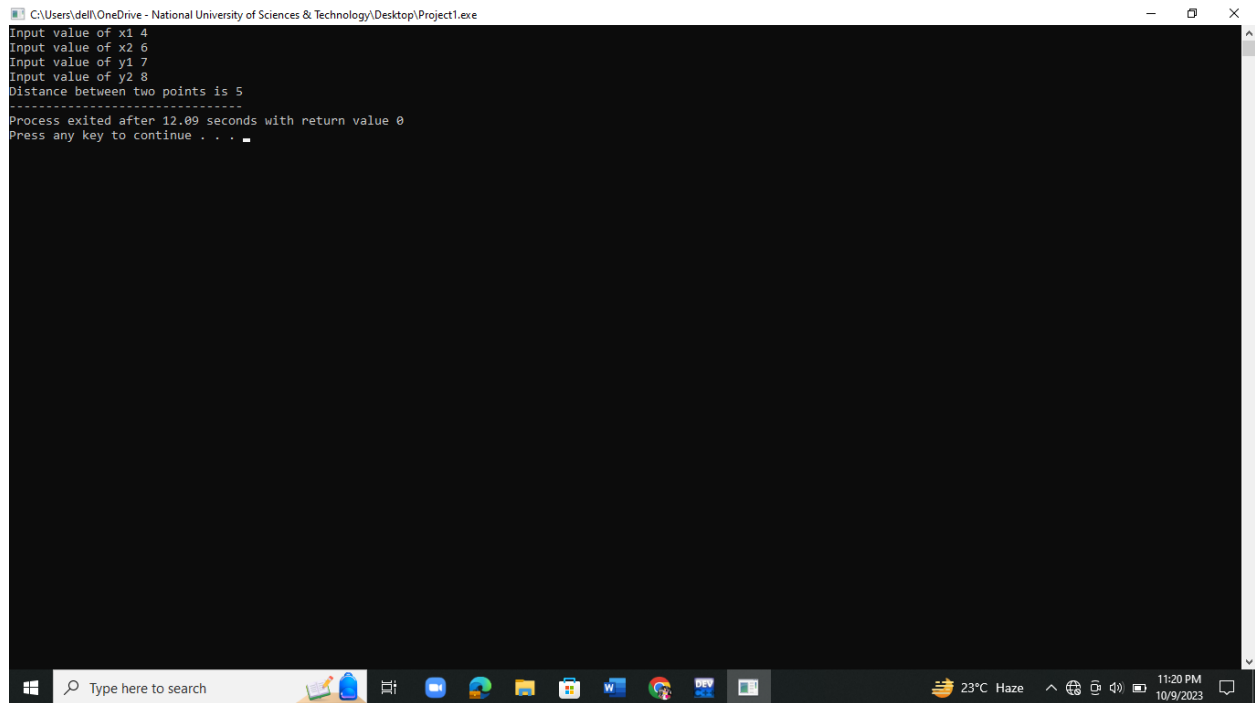## Question 1:

1. using namespace std;
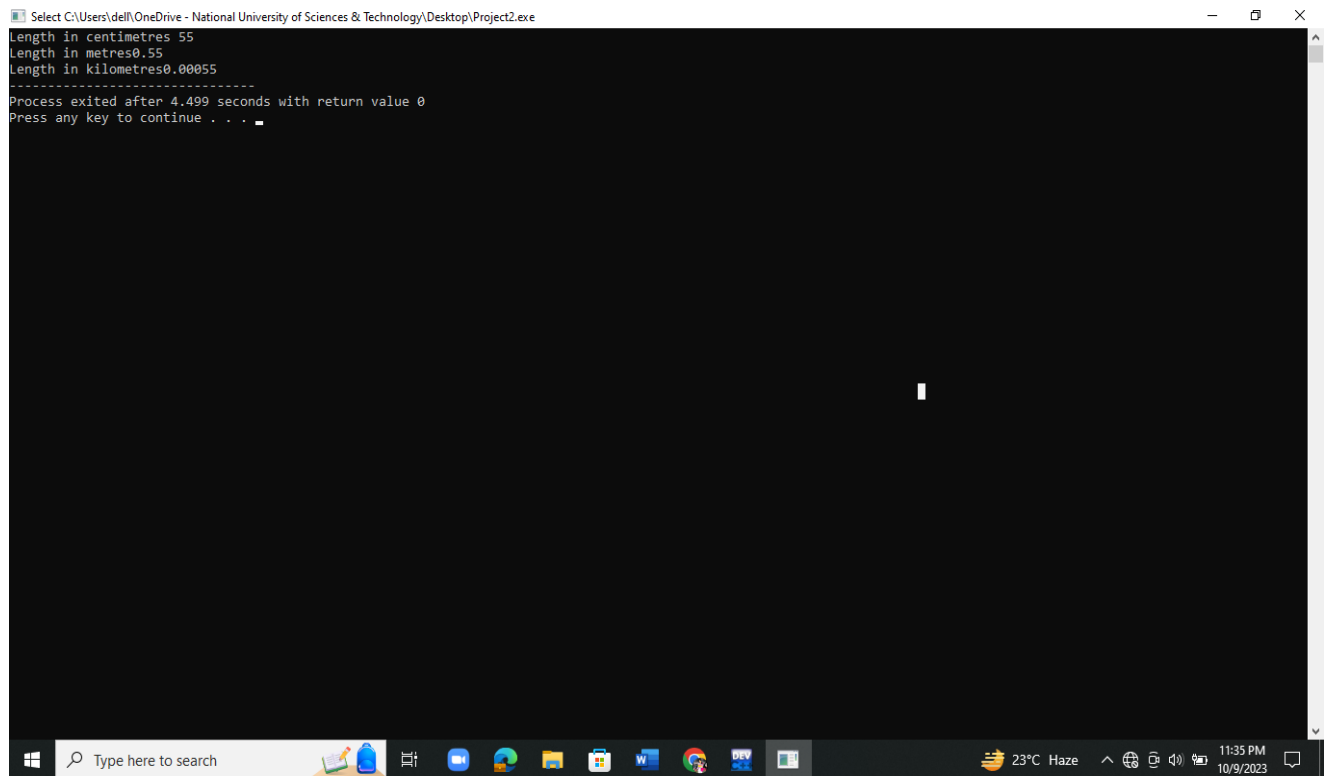2. int main(){
3. int x1,x2,y1,y2,L;
4. cout<< "Input value of x1";
5. cin>>x1;
6. cout<<"Input value of x2";
7. cin>>x2;
8. cout<<"Input value of y1";
9. cin>>y1;
10. cout<<"Input value of y2";
11. cin>>y2;
12. L=(x2-x1)*(x2-x1)+(y2-y1)*(y2-y1) ;
13. cout<<"Distance between two points is "<<L;
14.
15. }

Question 2:

1. using namespace std;
2. int main(){
3.   float x,y,z;
4. cout<<"Length in centimetres";
5. cin>>x;
6. y=x/100;
7. cout<<"Length in metres"<<y<<endl;
8. z=y/1000;
9. cout<<"Length in kilometres"<<z;
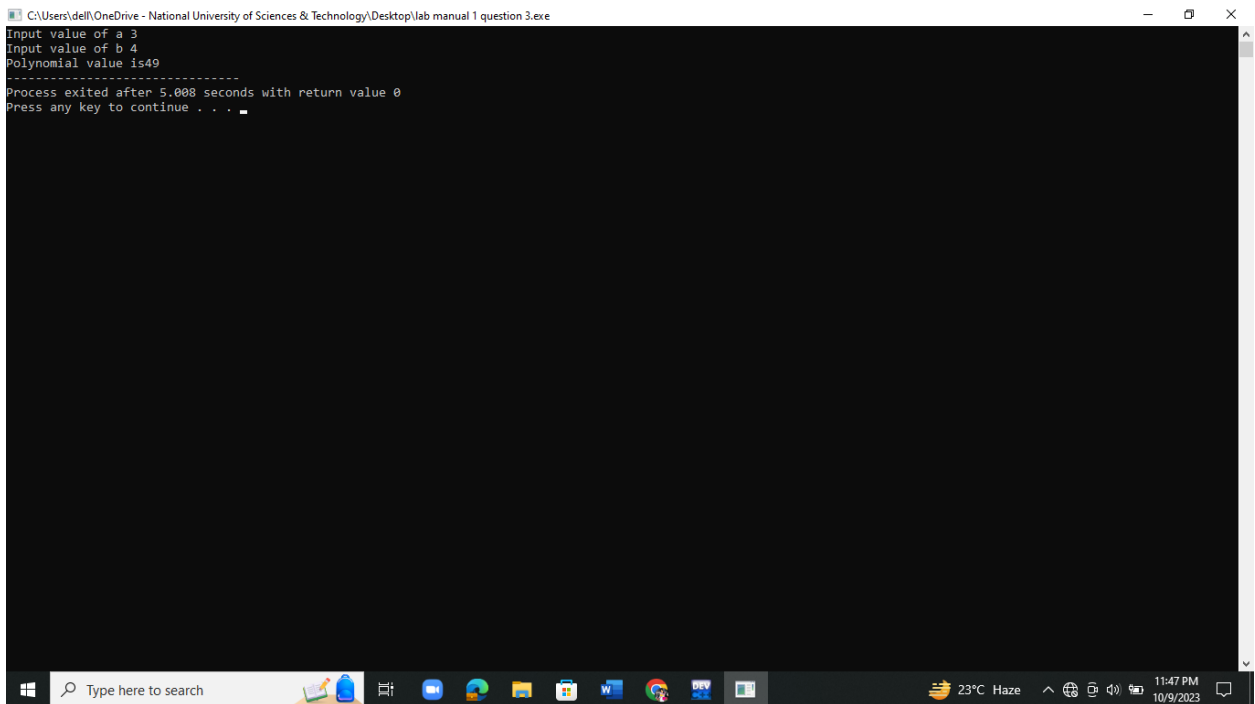10.}

Question 3:

1. #include <iostream>
2. using namespace std;
3. int main (){

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4.          float a,b,y;
5.          cout<<"Input value of a";
6.          cin>>a;
7.          cout<<"Input value of b";
8.          cin>>b;
9.          y=a*a+2*a*b+b*b;
10.         cout<<"Polynomial value is"<<y;
11.}
```

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C:\Users\dell\OneDrive - National University of Sciences & Technology\Desktop\lab manual 1 question 3.exe                    —    □    ×
Input value of a 3
Input value of b 4
Polynomial value is49
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Process exited after 5.008 seconds with return value 0
Press any key to continue . . . ▄
```

Question 4:

1. #include <iostream>
2. using namespace std;
3. int main (){
4.   double F,C;
5. cout<<"Temperature in Fahrenheit";
6. cin>>F;
7. C=(5*(F-32))/9;
8. cout<<"Temperature in Celsius"<<C;

9.

10.}

C:\Users\dell\OneDrive - National University of Sciences & Technology\Desktop\main.exe

```
Temperature in Fahrenheit-40
Temperature in Celsius-40
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Process exited after 3.65 seconds with return value 0
Press any key to continue . . .
```