Programming Lab Assignment 1

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```
#include<iostream>
using namespace std;
int main()
{
     int x_1, y_1, x_2, y_2, D;
     //Obtaining the coordinates of Two Points
     //Point 1
     cout<<"Enter the x and y coordinates of Point 1 \n";
     cout<<"x = ";
     cin>>x 1;
     cout<<"y = ";
     cin>>y_1;
     cout<<endl;
```

```
//Point 2
cout<<"Enter the x and y coordinates of Point 2 \n";</pre>
cout<<"x = ";
cin>>x_2;
cout<<"y = ";
cin>>y_2;
cout<<endl;
//Calculating Distance
D=((x_2-x_1)^*(x_2-x_1))+((y_2-y_1)^*(y_2-y_1));
cout<<"Distance = "<<D;</pre>
```

cout<<endl;

}

```
#include<iostream>
using namespace std;
int main()
{
     float c_m,m,k_m;
     //Obtaining the value for length
     cout<<"Enter the length in centimetres = ";</pre>
     cin>>c_m;
     cout<<endl;
     //Conversion into metres
     m = c_m/100;
```

```
cout<<"Length in metres = "<<m;
cout<<endl;

//Conversion into kilometres

k_m = m/1000;
cout<<"Length in kilometres = "<<k_m;
cout<<endl;</pre>
```

}

```
#include<iostream>
using namespace std;
int main()
{
     float a,b,P;
     //Obtaining the values for a and b
     cout<<"Enter the value of a = ";</pre>
      cin>>a;
     cout<<endl;
     cout<<"Enter the value of b = ";</pre>
     cin>>b;
     cout<<endl;
```

```
//Calculation of the Polynomial
P = a*a + 2*a*b + b*b;
cout<<"The value of Polynomial = "<<P;
cout<<endl;</pre>
```

}

```
#include<iostream>
using namespace std;
int main()
{
     float f,c;
     //Obtaining the temperature value
     cout<<"Enter the Temperature in Fahrenheit = ";</pre>
     cin>>f;
     cout<<endl;
     //Conversion from Fahrenheit into Celsius
     c = (f-32) * 5/9;
     cout<<"The Temperature in Celsius = "<<c;</pre>
}
```