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Code for factorial of 6:

```
#include <iostream>
```

```
Using namespace std;
```

```
// finding the factorial of 6
```

```
Int main (){
```

```
    Int k;
```

```
    Cout<<"write number 6 here to calculate its factorial"<<endl;
```

```
    Cin>>k;
```

```
    Cout<<(k-5)*(k-4)*(k-3)*(k-2)*(k-1)*(k-0)<<endl;
```

```
}
```

Code for distance between two points:

```
#include <iostream>
```

```
Using namespace std;
```

```
//taking two set of coordinates from user as input and then finding the distance between the two given points.
```

```
Int main (){
```

```
Float D,x1,y1,x2,y2;
```

```
Cout<<"Write (x1,y1) coordinate here"<<endl;
```

```
Cin>>x1>>y1;      // user will input the set of coordinate in the given memory here
```

```
Cout<<"Write (x2,y2) coordinate here"<<endl;
```

```
Cin>>x2>>y2;
```

```
Cout<<"The distance between the two sets of Coordinate is"<<endl;
```

```
D=((x2-x1)*(x2-x1)) + ((y2-y1)*(y2-y1)) );

Cout<< D <<endl;

Return 0;

}
```

Code to convert length given in centimeter to meters and Kilometers:

```
#include <iostream>
```

```
Using namespace std;
```

```
//Converting length from user qs input in centimeters and converting it into meters and kilometers.
```

```
Int main (){
```

```
Float length;  
  
Cout<<"write the length in Centimeters"<<endl;  
  
Cin>>length;  
  
Cout<<"The length in meters"<<endl;  
  
Cout<< length/100<<endl;  
  
Cout<<"The length in kilometer"<<endl;  
  
Cout<< length/100000<<endl;  
  
    Return 0;  
  
}
```

Code to display result of $a^2+2ab+b^2$:

```
#include <iostream>  
  
Using namespace std;
```

```
Int main (){
```

```
Int a,b;
```

```
Cout<<"write the variable a and b"<<endl;
```

```
Cin>> a>>b;
```

```
Cout<<"the polynomial is "<<endl;
```

```
Cout<< (a*a + 2*a*b + b*b) <<endl;
```

```
}
```