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// FAISAL RASOOL QAZI
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// 455689
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// ME-15
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// SECTION-B
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//PROJECT 1
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```
#include <iostream>
```

```
using namespace std;
```

```
int main(){
```

```
    int number=6,fact=1;           //defining variables
```

```
    for(int i=number; i>=1; i--)    //applying for loop
```

```
    {fact=fact*i;                  //applying formula
```

```
    }
```

```
    cout<<fact;                    //taking output
```

```
}
```

```
//PROJECT 2
```

```
#include <cmath>
```

```
int main(){
```

```
    float d,x1,y1,x2,y2;           //defining variables
```

```
    cout<<"x1=" ;                  // taking input value of x1
```

```
    cin>>x1;
```

```
    cout<<"x2=";                    //taking input value of x2
```

```
    cin>>x2;
```

```
    cout<<"y1=";                    //taking input value of y1
```



```

cin>>y1;
cout<<"y2=";          //taking input value of y2
cin>>y2;
d=sqrt(pow((x2-x1),2)+pow((y2-y1),2)); //applying formula for distance between 2 points
cout<<"DISTANCE="<<d;      //getting results
}

```

//PROJECT 3

```

float length,cm,metre,km;      //defining variables
int main(){
    cout<<"length in cm=";      //giving output
    cin>>cm;
    metre=cm/100;              //converting metre into cm
    km=cm*100000               //converting km into cm

    cout<<"length in metre="<<metre<<endl<<"length in km="<<km; //getting results in metre
    and km
}

```

//PROJECT 4

```

float a,b,P;                  //defining variables
int main (){
    cout<<"ENTER THE VALUE OF a AND b= "<<endl; //giving output
    cin>>a>>b;
    P=(a*a)+(2*a*b)+(b*b);     //applying formula for polynomial
    cout<<P;                  //getting results
}

```





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