

```

#include<iostream>

using namespace std;

int main()
{
    //TASK 1

    int x,y,z;

    cout<<"enter nth number ";

    cin>>x;

    z=0;

    for (y=1; y<=x; y++)

        z=y+z;

    cout<<z<<endl;

```

The console for this task is:

```

enter nth number 10
55

```

```

//TASK 2

int num,i;

    cout<<"insert number ";

    cin>>num;

    for(i=1;i<=10;i++)

        cout<<num<<"* "<<i<<"* "<<"="<<num*i<<endl;

```

The console for this is:

```

insert number 8
8*1=8
8*2=16
8*3=24
8*4=32
8*5=40
8*6=48
8*7=56
8*8=64
8*9=72
8*10=80

```

//TASK 3

```
int fact,X;

cout<<"enter number whose factorial you need ";

cin>>X;

fact=1;

for(int i=1;i<=X; ++i)

fact=fact*i;

cout<<fact<<endl;
```

```
enter number whose factorial you need 5
120
```

//TASK 4

```
int n, t1,t2,nt;

cout<<"enter first number ";

cin>>t1;

cout<<"enter second number ";

cin>>t2;

nt=0;

cout << "Enter the number of terms: ";

cin >> n;

cout << "the series is ";

for (int i = 1; i <= n; ++i) {

    if(i == 1) {

        cout << t1 << ", ";

        continue;

    }

    if(i == 2) {

        cout << t2 << ", ";
```

```
        continue;
    }
    nt = t1 + t2;
    t1 = t2;
    t2 = nt;
    cout<<nt<<" ";
```

The console for this is:

```
enter first number 0
enter second number 1
Enter the number of terms: 11
the series is 0, 1, 1,2,3,5,8,13,21,34,55,
-----
```

```
return 0;
```

```
}
```