

Code 1:

```
#include <iostream>
```

```
Using namespace std ;
```

```
Int main(){
```

```
    Int n,sum=0;
```

```
    Int i=1;
```

```
    Cout<<"enter a natural number: ";
```

```
    Cin>>n;
```

```
    While(i<=n){
```

```
        Sum=sum+i;
```

```
        I++;
```

```
    }
```

```
    Cout<<"the sum of first "<<n<<" natural number is : "<<sum<<endl;
```

```
    Return 0;
```

```
}
```

Code 2:

```
#include <iostream>
```

```
Using namespace std;
```

```
Int main(){
```

```
    Int i=0;
```

```
    Int table=8,multiply;
```

```
    While(i<=10){
```

```
        Cout<<" 8 * "<<i<<" = "<<table*i<<endl;
```

```
        I++;
```

```
    }
```

```
    Return 0;
```

```
}
```

Code 3:

```
// include the input/output library
```

```
#include <iostream>

// declare the main function
Int main()
{
    // declare an integer variable to store the input number
    Int n;

    // prompt the user to enter a number
    Std::cout << "Enter a positive integer: ";

    // read the input from the user
    Std::cin >> n;

    // declare an integer variable to store the factorial
    Int factorial = 1;

    // use a for loop to iterate from 1 to n
    For (int I = 1; I <= n; i++)
    {
        // multiply the factorial by i
        Factorial = factorial * I;
    }

    // display the result
    Std::cout << "Factorial of " << n << " = " << factorial << std::endl;

    // return 0 to indicate successful execution
    Return 0;
```

```
}
```

Code 4:

```
Int seq, sec = 1, fir = 0;
```

```
Int n;
```

```
Cout<<"Enter a number for sequence values:"<<endl; cin>>n;
```

```
Cout<<"The fibonacci sequence for "<<n<<" values is:"<<endl;
```

```
For (int l = 1; i<n; i++)
```

```
If (i<=1) {
```

```
    Seq = l;
```

```
} else {
```

```
    Seq = fir + sec;
```

```
    Fir = sec;
```

```
    Sec = seq;
```

```
    Cout<<seq<<endl;
```

```
}
```

```
Return 0;
```

```
}
```

Results:

```
Enter a number for sequence values:
16
The fibonacci sequence for 16 values is:
1
2
3
5
8
13
21
34
55
89
144
233
377
610

...Program finished with exit code 0
Press ENTER to exit console. █
```

```
enter a natural number: 9
the sum of first 9 natural number is : 45

...Program finished with exit code 0
Press ENTER to exit console. █
```

```
8 * 0= 0
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
```

```
...Program finished with exit code 0
Press ENTER to exit console. 
```