

Q1. Write a program in C++ to find the sum of first 10 natural numbers.

```
The sum of first ten natural numbers is: 55

Process exited after 0.05824 seconds with return value 0

Press any key to continue . . . .
```

Q2. Write a C++ program to Print a Table of any Number.

The output should look like this:  $2 \times 1 = 2$  $2 \times 2 = 4$ 

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

int main(){
    int a,result;
    cout<<"Enter any number: "; cin>>a;
    for(int i=l;i<=l0;i++){
        result=a*i;
        cout<<a<<" x "<<i<<" = "<<re>"<<re>result<</pre>
}
```

```
Enter any number: 4
4 x 1 = 4
4 x 2 = 8
4 x 3 = 12
4 x 4 = 16
4 x 5 = 20
4 x 6 = 24
4 x 7 = 28
4 x 8 = 32
4 x 9 = 36
4 x 10 = 40
```

Q3. Write a program to generate factorial for any number.

```
#include <iostream>
using namespace std;
int main(){
   int x, fact;
   cout<<"Enter the number you want factorial of: "; cin>>x;
   if (x==0) {
   cout<<" 0! = 1 " <<endl;
   } else {
      for(int i=x-1;i>0;i--)
      { fact = x*i;
      x=fact;
   }
   cout<<" FACTORIAL IS " <<fact;}
   return 0;
}</pre>
```

```
Enter the number you want factorial of: 9
FACTORIAL IS 362880
Process exited after 2.726 seconds with return value 0
Press any key to continue . . . _
```

Q4. Write a C++ program to generate a Fibonacci sequence up to a certain number input by the user.

```
1 #include <iostream>
2 using namespace std;
3  int main(){
 4
       int x,y,z,result;
      cout<<"Enter your two numbers for the sequence: "; cin>>x;cin>>y;
cout<<"Mow many integers you want in the sequence: "; cin>>z;
cout<<"Your sequence is "<<endl;
for(int i=0;i<z;i++){</pre>
 9
           result=x+y;
10
           x=y;
11
           y=result;
           cout << result << endl;
12
13
14
         return 0;
15 - }
```

```
Enter your two numbers for the sequence: 1

How many integers you want in the sequence: 5

Your sequence is

5

8

13

21

Process exited after 4.789 seconds with return value 8

Press any key to continue . . .
```