Fundamentals of Programming

Lab Task: 4

Name: Malik Haseeb

Section: B

Roll no: 468333

Submitted to: Sir M. Affan

Code:

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

int main() {
    int summation,num,i;
    while(i<10)
    {cout<<"Enter any Number..."<<endl;
        cin>>num;
    summation=summation+num;
    i++;
    }
    cout<<"The Sum of the First Ten Natural Numbers is:"<<summation<<endl;
    return 0;
}</pre>
```

Output:

```
Enter any Number...

Enter any Number...
```

Code: #include <iostream> using namespace std; int main() { int number, table, ans; cout<<"Enter any Number"<<endl;</pre> cin>>number; for(table=1;table<=10;table++)</pre> {ans=number*table; cout<<number<<" x "<<table<<" = "<<ans<<endl; }

return 0;

¿Output:

```
Enter any Number
16
16 \times 1 = 16
16 \times 2 = 32
16 \times 3 = 48
16 \times 4 = 64
16 \times 5 = 80
16 \times 6 = 96
16 \times 7 = 112
16 \times 8 = 128
16 \times 9 = 144
16 \times 10 = 160
```

```
Code:
#include <iostream>
using namespace std;
int main()
{
 float f,num;
 cout<<"Enter any Number :"<<endl;</pre>
 cin>>num;
 for(f=num-1;f>=1;f--)
 {num*=f;}
 cout<<"The Factorial is :"<<num<<endl;</pre>
 return 0;
¿Output:
Enter any Number :
6
The Factorial is :720
```

Code:

```
#include <iostream>
using namespace std;
int main() {
  int fib;
  cout << "Terms of the Fibonacci Sequence..";</pre>
  cin >> fib;
  float a = 0, b = 1, x;
  cout << "Fibonacci Sequence: "<<endl;</pre>
  for (int f = 0; f < fib; ++f) {
    if(f \le 1) {
       x = f;
    } else {
       x = a + b;
       a = b;
       b = x;
    cout << x << endl;
  return 0;
Output:
Terms of the Fibonacci Sequence..11
Fibonacci Sequence:
0
1
2
3
5
8
```