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Fundamentals of Programming

Assignment no. 4

TASK 1

```cpp
int main () {
int N = 0;
int sum = 0;
cout<<"Enter the number you want to add"<<endl; cin>>N;


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


sum += i;
}
cout<<"The sum of "<<N<<" first numbers is: "<<sum<<endl;
return 0;
}
```
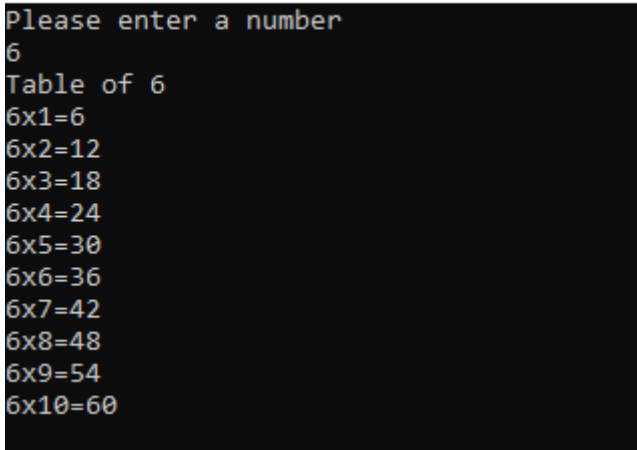
C:\Users\HC\Documents\Lab task 4.exe

```
Enter the number you want to add
7
The sum of 7 first numbers is: 28

--------------------------------
```

TASK 2

```cpp
int main () {
double num;
cout<<"Please enter a number"<<endl;
cin>>num;
cout<<"Table of "<<num<<endl;


for (int i= 1; i <=10; i++) {
        cout<<num<<"x"<<i<<"="<<num*i<<endl;
}
return 0;
}
```
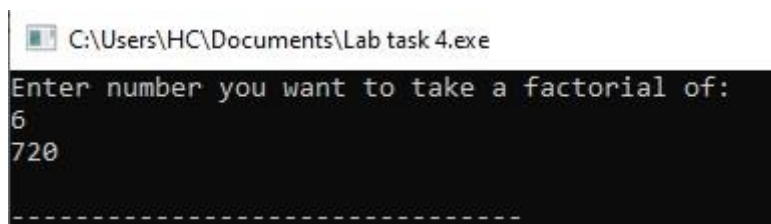
```
Please enter a number
6
Table of 6
6x1=6
6x2=12
6x3=18
6x4=24
6x5=30
6x6=36
6x7=42
6x8=48
6x9=54
6x10=60
```

TASK 3

```cpp
int main () {
int factorial=1;
int sump;
cout<<"Enter number you want to take a factorial of: "<<endl; cin>>sump;
for (int i = 1; i<=sump; i++) {


        factorial *=i;
}



cout<<factorial<<endl;
return 0;
}
```
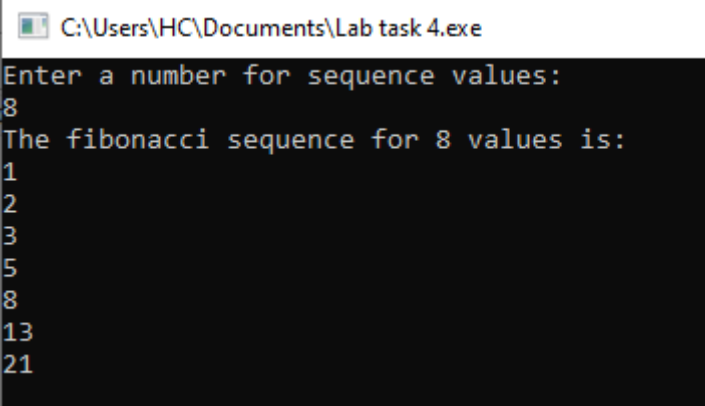


```
C:\Users\HC\Documents\Lab task 4.exe

Enter number you want to take a factorial of:
6
720

--------------------------------
```

Task 4

```cpp
int main () {
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 i = 1; i<n; i++)
if (i<=0) {

        seq = i;


} else {

        seq = fir + sec;
        fir = sec;
        sec = seq;
        cout<<seq<<endl;
}


return 0;
}
```



```
C:\Users\HC\Documents\Lab task 4.exe

Enter a number for sequence values:
8
The fibonacci sequence for 8 values is:
1
2
3
5
8
13
21
```