



FUNDAMENTALS OF PROGRAMMING

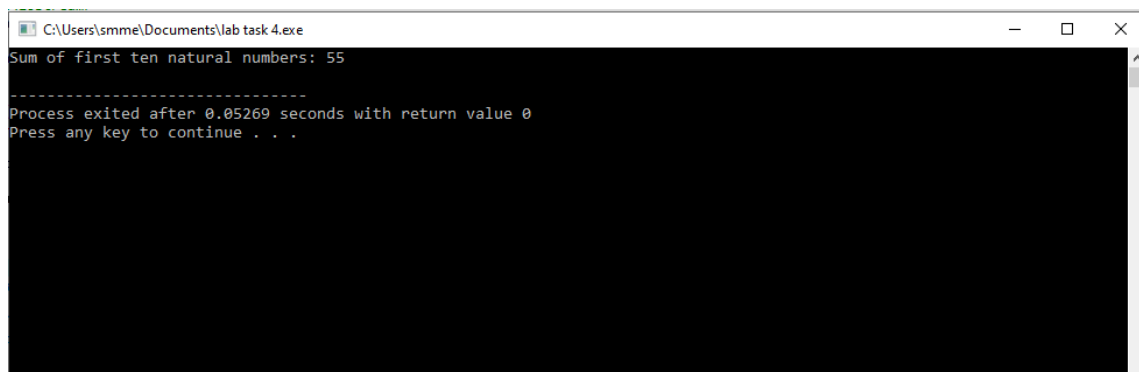
ME-15

SECTION B

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### TASK: 1

```
int main(){  
    int sum;  
    for(int i=0; i<11; i++){  
        sum+=i;  
    }  
    cout<<"Sum of first ten natural numbers:"<<sum<<endl;  
    return 0;  
}
```



The screenshot shows a Windows command prompt window titled "C:\Users\smme\Documents\lab task 4.exe". The output of the program is displayed as follows:

```
Sum of first ten natural numbers: 55  
-----  
Process exited after 0.05269 seconds with return value 0  
Press any key to continue . . .
```

### TASK: 2

```
int main(){  
    int table=3, multiply;  
    for(int i=0; i<11; i++){  
        cout<<i<<" * 3 ="<<endl;  
    }  
  
    return 0;  
}
```

```
C:\Users\smme\Documents\lab task 4.exe
0 * 3 =0
1 * 3 =3
2 * 3 =6
3 * 3 =9
4 * 3 =12
5 * 3 =15
6 * 3 =18
7 * 3 =21
8 * 3 =24
9 * 3 =27
10 * 3 =30

-----
Process exited after 0.0544 seconds with return value 0
Press any key to continue . . .
```

TASK: 3

```
int main(){
    int k, l;
    cout<<"Enter a number:"<<endl;
    cin>>k;

    for (int i=k-1, i>=1; i--)
        k*=i;
    }
    cout<<"Factorial of the number is:"<<k<<endl;

    return 0;
}
```

```
C:\Users\smme\Documents\lab task 4.exe
Enter a number:
7
Factorial of the number is:5040

-----
Process exited after 2.884 seconds with return value 0
Press any key to continue . . .
```

TASK: 4

```
int main(){
    int term;
```

```
cout<<"Number of terms in Fibonacci sequence:"<<endl;
```

```
int num1=0, num2=1, num3;
```

```
if (x<=1){
```

```
num3 = x;}
```

```
else{
```

```
num3 = num1 + num2;
```

```
num1 = num2;
```

```
num2 = num3;
```

```
}
```

```
cout<<"Fibonacci sequence:"<<endl;
```

```
}
```

```
return 0;
```

```
}
```

C:\Users\smme\Documents\lab task 4.exe

Number of terms in Fibonacci sequence:

6

Fibonacci sequence:0

Fibonacci sequence:1

Fibonacci sequence:1

Fibonacci sequence:2

Fibonacci sequence:3

Fibonacci sequence:5

-----

Process exited after 0.8527 seconds with return value 0

Press any key to continue . . .