

Lab manual 6

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- Task 1: Generate the Fibonacci sequence using nested loops.

```
int n=0, m=1, sum=0;
```

```
int rows;
```

```
cout<<"Enter the number of rows for which the fibonacci sequence will be generated."<<endl;
```

```
cin>>rows;
```

```
for (int i=1; i<=rows; i++){
```

```
    n=0, m=1, sum=0;
```

```
    for(int j=0;j<i; j++){
```

```
        cout<<n<<" ";
```

```
        sum=n+m;
```

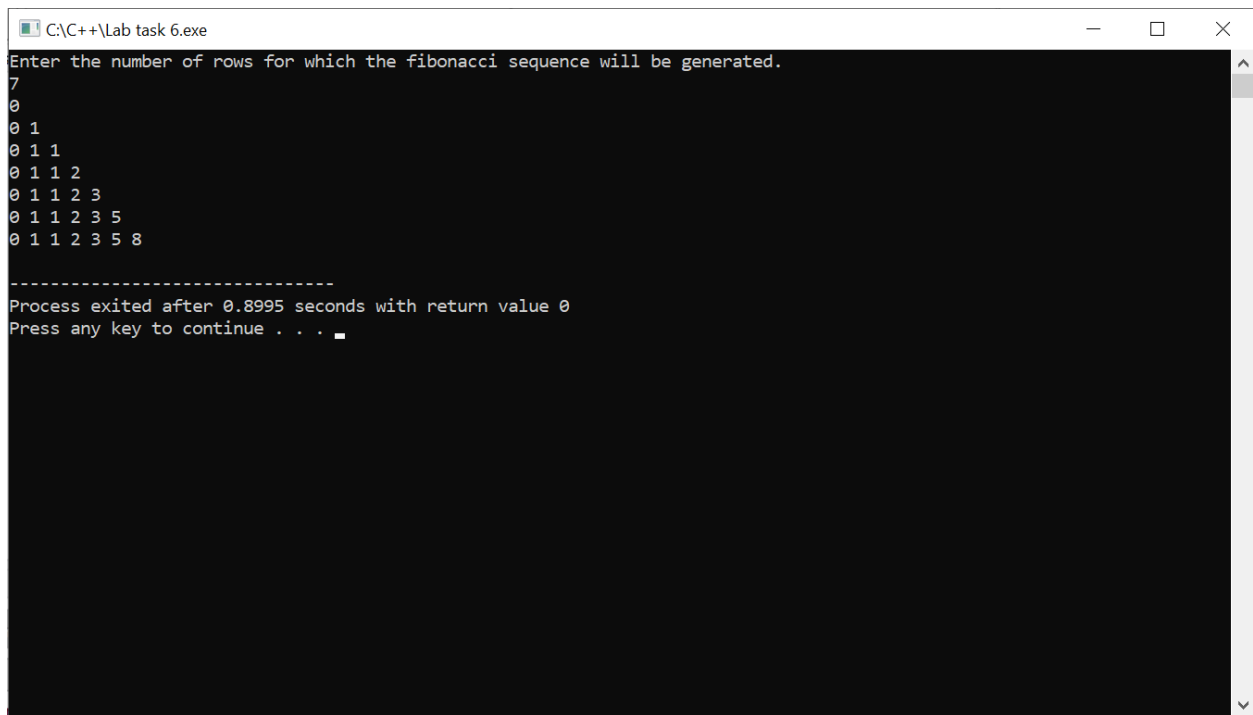
```
        n=m;
```

```
        m=sum;
```

```
    }
```

```
    cout<<endl;
```

```
}
```



```
C:\C++\Lab task 6.exe
Enter the number of rows for which the fibonacci sequence will be generated.
7
0
0 1
0 1 1
0 1 1 2
0 1 1 2 3
0 1 1 2 3 5
0 1 1 2 3 5 8

-----
Process exited after 0.8995 seconds with return value 0
Press any key to continue . . .
```

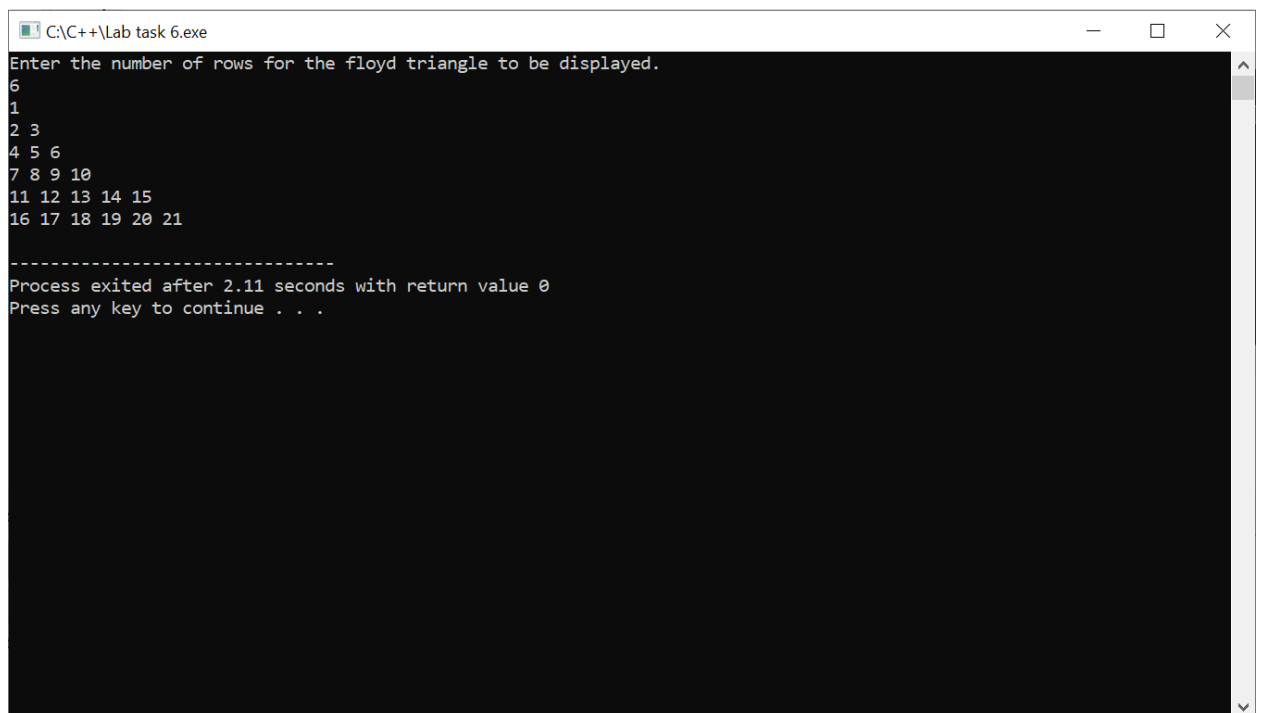
- Task 2: Create Pascal's triangle with nested loops.

```
int rows, n=1;

cout<<"Enter the number of rows for the floyd triangle to be displayed."<<endl;

cin>>rows;

for(int i=1;i<=rows;i++){
    for(int j=1;j<=i;j++){
        cout<<n<<" ";
        n++;
    }
    cout<<endl;
}
```



The screenshot shows a Windows console window titled "C:\C++\Lab task 6.exe". The program prompts the user to "Enter the number of rows for the floyd triangle to be displayed." and the user has entered "6". The output displays Floyd's triangle for 6 rows, with numbers starting from 1 and increasing sequentially. Below the triangle, a separator line is shown, followed by the message "Process exited after 2.11 seconds with return value 0" and "Press any key to continue . . .".

```
C:\C++\Lab task 6.exe
Enter the number of rows for the floyd triangle to be displayed.
6
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21

-----
Process exited after 2.11 seconds with return value 0
Press any key to continue . . .
```