LAB MANUAL 6:

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ME-15-B

LAB TASK 1:

```cpp
#include <iostream>

using namespace std;

int main(){

int n,prevnum,currentnum,nextnum;

cout<<"enter a number"<<endl;

cin>>n;


for(int j=0;j<n;j++){

    prevnum=0;

currentnum=1;

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

  nextnum=prevnum+currentnum;

  prevnum=currentnum;

  currentnum=nextnum;

}

cout<<endl<<prevnum;

}

return 0;

}
```
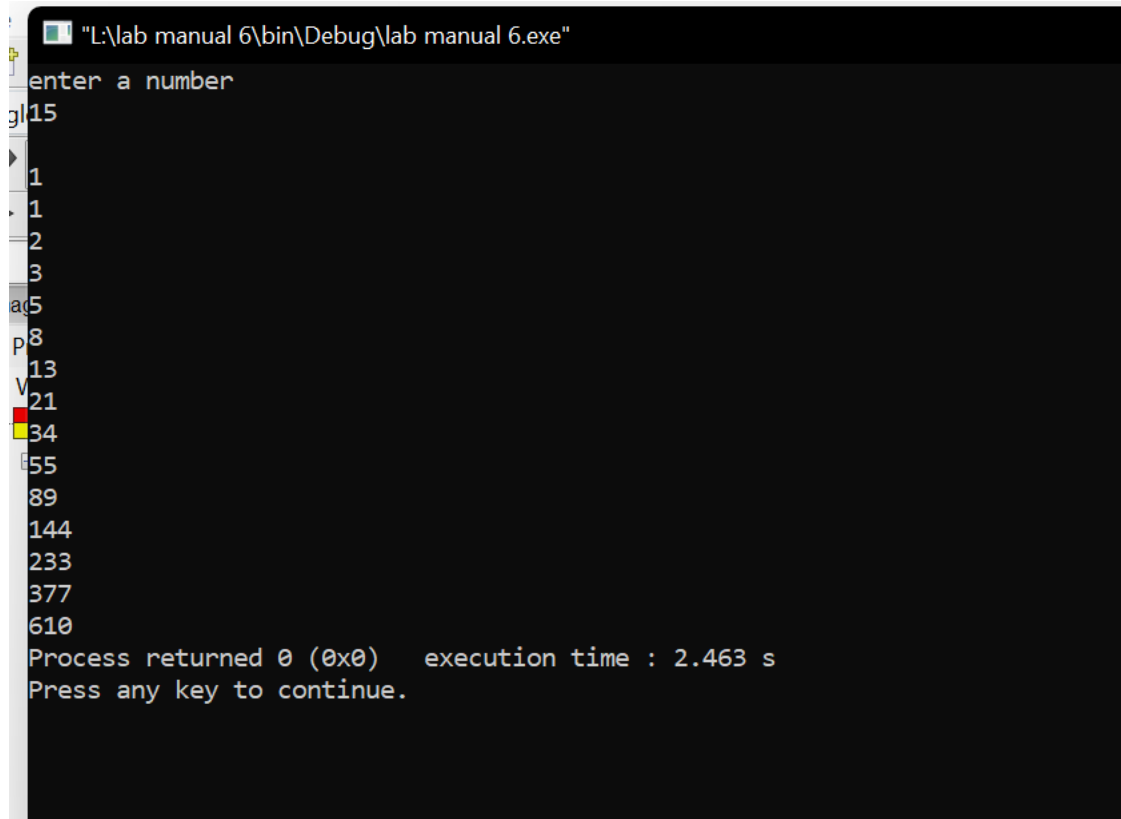
```
enter a number
15
1
1
2
3
5
8
13
21
34
55
89
144
233
377
610
Process returned 0 (0x0)   execution time : 2.463 s
Press any key to continue.
```

LAB TASK 2:

#include <iostream>

using namespace std;

int main(){

int rows;

cout<<"enter the number of rows"<<endl;

cin>>rows;

cout<<endl;

for(int i=0;i<rows;i++){

int val=1;

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

    cout<<" ";

}

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

    cout<<"    "<<val;

val=val*(i-k)/(k+1);

}

cout<<endl<<endl;

}

cout<<endl;

return 0;

}
```

```
                        1

                   1       1

              1       2       1

         1       3       3       1

    1       4       6       4       1

    1       5      10      10       5       1

    1       6      15      20      15       6       1

    1       7      21      35      35      21       7       1

    1       8      28      56      70      56      28       8       1

    1       9      36      84     126     126      84      36       9       1

    1      10      45     120     210     252     210     120      45      10       1

    1      11      55     165     330     462     462     330     165      55      11       1


Process returned 0 (0x0)    execution time : 1.657 s
Press any key to continue.
```