



FUNDAMENTAL OF PROGRAMMING

LAB REPORT 6 (Lab task)

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Generate the Fibonacci sequence using nested loops

CODE:

```
#include<iostream>

using namespace std;

int main(){

    int ft=0,st=1;

    cout<<"Fibonacci sequence is: ";

    for(int a=0;a<5;a++){

        for(int b=1;b<a;b++){

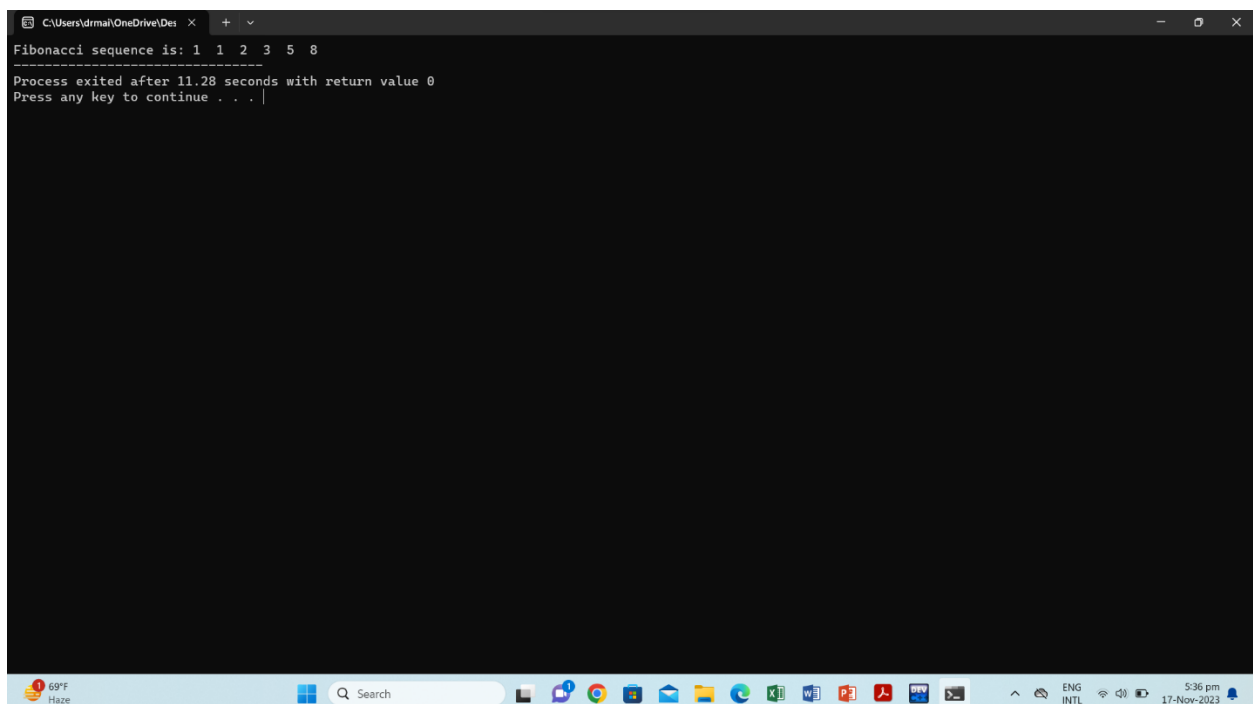
            int nt=ft+st;

            ft=st;

            st=nt;

            cout<<ft<<" ";} } }
```

OUTPUT:



The screenshot shows a Windows command prompt window with the following text:

```
C:\Users\drmai\OneDrive\Desktop>
Fibonacci sequence is: 1 1 2 3 5 8
-----
Process exited after 11.28 seconds with return value 0
Press any key to continue . . .
```

The window title bar indicates the file path: C:\Users\drmai\OneDrive\Desktop. The Windows taskbar at the bottom shows the system clock as 5:36 pm on 17-Nov-2023, along with various system icons and application icons.

Create Floyd's triangle with nested loops.

CODE:

```
#include<iostream>

using namespace std;

int main(){

    int w,x,y,z=1;

    cout<<"Enter the no of rows: ";

    cin>>y;

    for(w=1;w<=y;w++){

        for(x=1;x<=y;x++){

            if(x<=w)

                {cout<<z<<" ";

                z++;}

            else{

                cout<<" ";} }

        cout<<endl;

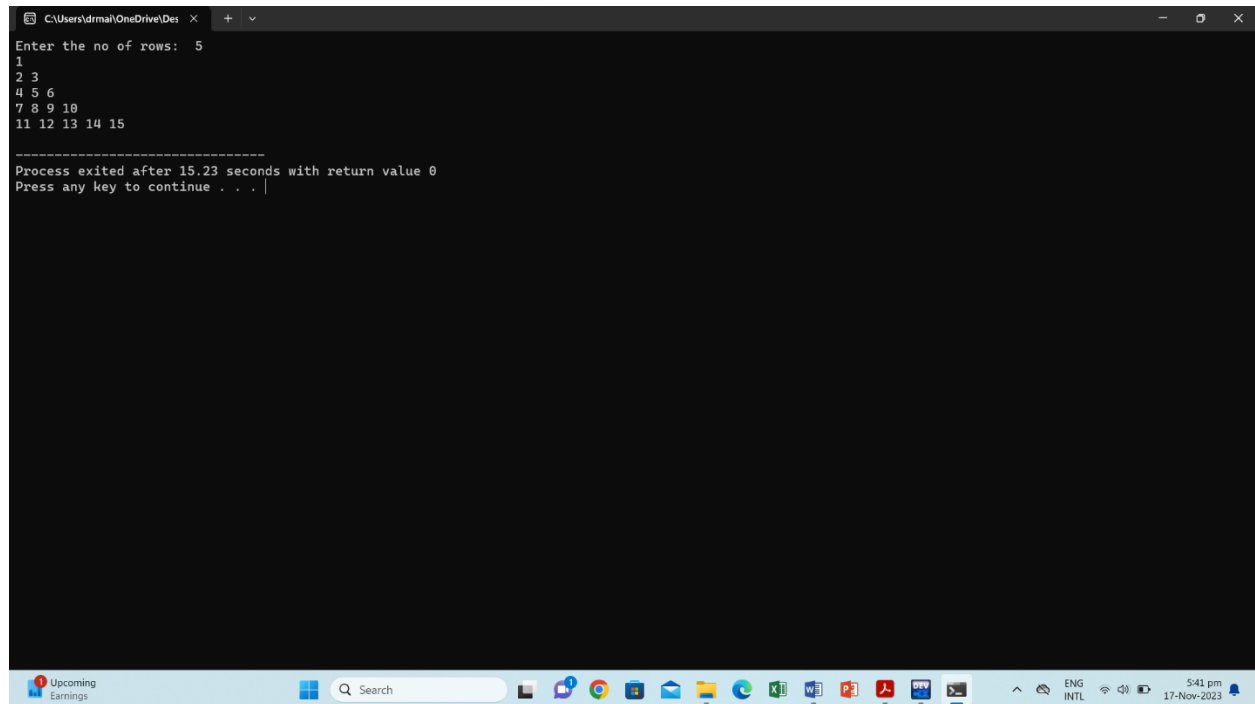
    }

}
```

OUTPUT:

```
C:\Users\drmai\OneDrive\Des  x + v
Enter the no of rows: 5
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15

-----
Process exited after 15.23 seconds with return value 0
Press any key to continue . . .
```

A screenshot of a Windows 11 desktop environment. A terminal window is open, displaying a Pascal's triangle pattern of numbers. The pattern consists of five rows: the first row has '1', the second has '2 3', the third has '4 5 6', the fourth has '7 8 9 10', and the fifth has '11 12 13 14 15'. Below the pattern, a separator line of dashes is shown, followed by the text 'Process exited after 15.23 seconds with return value 0' and 'Press any key to continue . . .'. The terminal window's title bar shows the path 'C:\Users\drmai\OneDrive\Des'. At the bottom of the screen is the Windows taskbar, featuring the Start button, a search bar, and several pinned application icons including Microsoft Edge, File Explorer, and various office applications. The system tray on the right shows the language set to 'ENG INTL', network and volume icons, and the date and time '5:41 pm 17-Nov-2023'.