

Fop lab task 6

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Task 1:

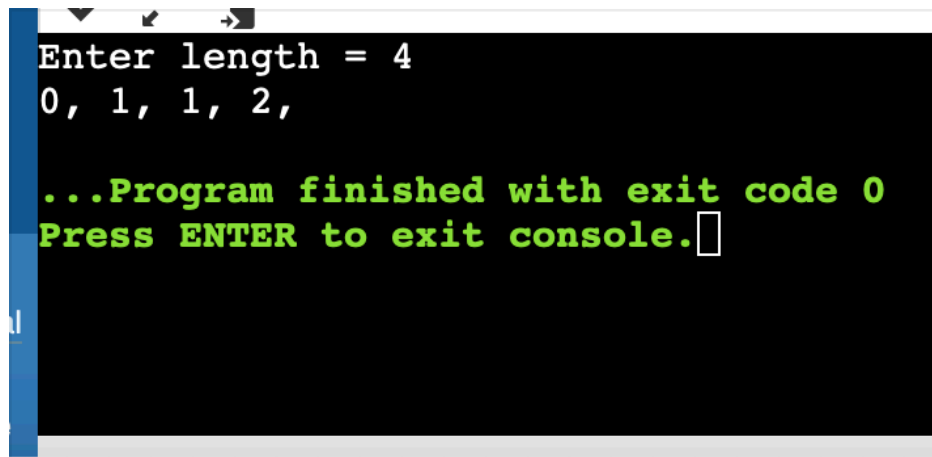
```
#include <iostream>

using namespace std;

int main()
{
    int sum = 0, length;
    int num1 = 0, num2 = 1;

    cout<<"Enter length = ";
    cin>>length;
    sum = num1 + num2;
    cout<<num1<<" " <<num2<<" " <<sum<<" ";

    for (int k = 0; k<length-3; k++) {
        num1 = num2;
        num2 = sum;
        sum = num1 + num2;
        for (int l = 0; l<1; l++) {
            cout<<sum<<" ";
        }
    }
}
```

A screenshot of a console window with a black background and white text. The text shows the user entering 'length = 4' and the program outputting '0, 1, 1, 2,'. It then displays a green message: '...Program finished with exit code 0' and 'Press ENTER to exit console.' with a white cursor box at the end.

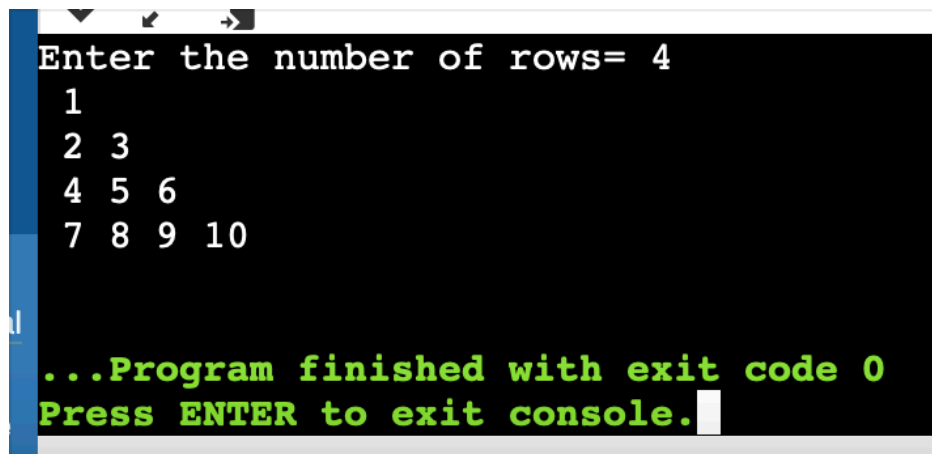
```
Enter length = 4
0, 1, 1, 2,

...Program finished with exit code 0
Press ENTER to exit console.
```

Task 2:

```
#include <iostream>
using namespace std;
int main()
{
    int x, y = 0;
    cout<<"Enter the number of rows= ";
    cin>>x;

    for (int k = 1; k<=x; k++) {
        for (int l = 1; l<=k; l++) {
            cout<<" "<<++y;
        }
        cout<<endl;
    }
}
```

A screenshot of a console window with a black background and white text. The text shows the user entering 'Enter the number of rows= 4' and the program outputting a pattern of numbers: '1', '2 3', '4 5 6', and '7 8 9 10'. It then displays a green message: '...Program finished with exit code 0' and 'Press ENTER to exit console.' with a white cursor box at the end.

```
Enter the number of rows= 4
1
2 3
4 5 6
7 8 9 10

...Program finished with exit code 0
Press ENTER to exit console.
```

