NUST

NATIONAL UNIVERSITY
OF SCIENCES & TECHNOLOGY

Lab Task # 6

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TASK 1

```
#include <iostream>
using namespace std;
int main() {
	int end;
	int sum;
	cout << "term no: ";
	cin >> end;
	int j = 1;
	int first = 1, second = 1;
	bool flag = true;
	while(flag == true){
	while (j <= end) {
	cout << first << "\t";
	sum = first + second;
	first = second;
	second = sum;
	j++;
	if (j == end){
		flag = false;
	}
	}
}
	return 0;
}
```

main.cpp F9

```cpp
#include <iostream>
using namespace std;
int main() {
    int end;
    int sum;
    cout << "term no: ";
    cin >> end;
    int j = 1;
    int first = 1, second = 1;
    bool flag = true;
    while(flag == true){
        while (j <= end) {
            cout << first << "\t"
            sum = first + second;
            first = second;
            second = sum;
            j++;
            if (j == end){
                flag = false;
            }
        }
}
    return 0;
}
```

```
term no: 5
1       1       2       3       5

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

TASK 2

```
#include <iostream>
using namespace std;

int main()
{
	int height, j = 1, z = 1;
	cout << "Enter height of triangle: ";
	cin >> height;
	for (int i = 1; i <= height; i++){
	j = 1;
	while (j <= i){
	cout << z << "\t";
	z = z + 1;
	j++;
	}
	cout << endl;
	}
	return 0;
}
```

main.cpp

```cpp
#include <iostream>
using namespace std;

int main()
{
    int height, j = 1, z = 1;
    cout << "Enter height of triangle: ";
    cin >> height;
    for (int i = 1; i <= height; i++){
        j = 1;
        while (j <= i){
            cout << z << "\t";
            z = z + 1;
            j++;
        }
        cout << endl;
    }
    return 0;
}
```

```
Enter height of triangle: 5
1
2       3
4       5       6
7       8       9       10
11      12      13      14      15
```