



# NUST

NATIONAL UNIVERSITY  
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## **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
1  #include <iostream>
2  using namespace std;
3  int main() {
4      int end;
5      int sum;
6      cout << "term no: ";
7      cin >> end;
8      int j = 1;
9      int first = 1, second = 1;
10     bool flag = true;
11     while(flag == true){
12         while (j <= end) {
13             cout << first << "\t"
14             sum = first + second;
15             first = second;
16             second = sum;
17             j++;
18             if (j == end){
19                 flag = false;
20             }
21         }
22     }
23     return 0;
24 }

```

```

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

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int height, j = 1, z = 1;
7     cout << "Enter height of triangle: ";
8     cin >> height;
9     for (int i = 1; i <= height; i++){
10         j = 1;
11         while (j <= i){
12             cout << z << "\t";
13             z = z + 1;
14             j++;
15         }
16         cout << endl;
17     }
18     return 0;
19 }
```

Enter height of triangle: 5

```
1
2     3
4     5     6
7     8     9    10
11    12    13    14    15
```