

National University of Sciences and Technology (NUST)
Department of Mechanical Engineering (SMME)



Fundamentals of Programming (FOP)

Lab Tasks

Lab Manual 6

By

Muhammad Owais

461359

Teacher: Sir Muhammad Affan

Lab Task -1:

```
#include<iostream>
using namespace std;
int main() {
    int a,b,c;
    cout<<"Enter number of terms for fibonacci sequence: ";
    int num; cin>>num;
    for(int i=0;i<num;i++)
    {
        a=0;
        b=1;
        for(int j=0;j<=i;j++)
        {
            cout<<a<<" ";
            c=a+b;
            a=b;
            b=c;
        }
        cout<<" "<<endl;
    }
    return 0;
}
```

```
Enter number of terms for fibonacci sequence: 6
0
0 1
0 1 1
0 1 1 2
0 1 1 2 3
0 1 1 2 3 5
```

Lab Task-2:

```
#include<iostream>
using namespace std;
int main()
{
    int n, sum=1;
    cout<<"Enter number of rows for floyd's triangle : ";
    cin>>n;
    for(int i=0;i<=n;i++)
    {
        for(int a=0;a<i;a++)
        {
            cout<<sum<<" ";
            sum++;
        }
        cout<<endl;
    }
    return 0;
}
```

```
Enter number of rows for floyd's triangle : 4
```

```
1
2 3
4 5 6
7 8 9 10
```