

A blue text on a white background

Description automatically generated

**DEPARTMENT OF MECHANICAL ENGINEERING  
  
Subject: Fundamentals of Programming  
Lab Task. 6  
Submitted by: Muhammad Maaz  
Registration number: 479510  
Semester No. 1  
Date: November 20, 2023**

**FIRST PROGRAM**

#include <iostream>

using namespace std;

int main() {

int n;

cout << "Enter the number of terms you want in the Fibonacci sequence: ";

cin >> n;

int first = 0, second = 1;

if (n >= 1) {

cout << "Fibonacci Sequence: " << first << " ";

}

if (n >= 2) {

cout << second << " ";

}

for (int a = 3; a <= n; a++) {

for (int b = 3; b <= a; b++) {

int next = first + second;

cout << next << " ";

first = second;

second = next;

}

cout << "";

}

return 0;

}

A black screen with white text

Description automatically generated

**Second PROGRAM**

#include <iostream>

using namespace std;

int main() {

int a,b=1;

cout << "Enter the number of rows for Floyd's Triangle: ";

cin >> a;

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

for (int j = 1; j <= i; ++j) {

cout << b << " ";

b++;

}

cout <<endl;

}

return 0;

}

A screen shot of a computer

Description automatically generated