



NUST

NATIONAL UNIVERSITY
OF SCIENCES & TECHNOLOGY

Programming lab lab task

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Section C

Lab Task:

C++ program to generate the Fibonacci sequence using nested loops:

```

#include <iostream>

using namespace std;

int main() {

    int n = 10;

    int a = 0, b = 1;

    for (int i = 0; i < n; ++i) {

        cout << a << " ";

        int temp = a + b;

        a = b;

        b = temp;    }

    return 0;}

```

C++ program to create Pascal's triangle with nested loops:

```

#include <iostream>

using namespace std;

int main() {

    int rows = 5; // Change rows to the desired number of rows

    for (int i = 0; i < rows; ++i) {

        int num = 1;

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

            cout << num << " ";

            num = num * (i + 1 - j) / j;}

        cout << endl;

    }return 0;}

```