Open | compareStdmarks.cpp ~/C++Lab/labTest1 | Save

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

class Student
{
    private:
        string name;
        int id;
        int marks[4];
    public:
        void inputData();
        bool operator==(Student s2);
        bool operator>(Student s2);
        void outputData();
};

void Student::inputData()
{
    cout << "Enter Name : ";
    cin >> name;
    cout << "Enter Id : ";
    cin >> id;
    cout << "Enter the 4 subjects marks in order : ";
    for(int i = 0; i < 4; ++i)
        cin >> marks[i];
}

bool Student::operator==(Student s2)
{
    int totalMarks1 = 0, totalMarks2 = 0;
    for(int i = 0; i < 4; ++i)
    {
        totalMarks1 += marks[i];
        totalMarks2 += s2.marks[i];
    }
    if(totalMarks1 == totalMarks2)
        return true;
    else
        return false;
}

bool Student::operator>(Student s2)
{
    int totalMarks1 = 0, totalMarks2 = 0;
    for(int i = 0; i < 4; ++i)
    {
        totalMarks1 += marks[i];
        totalMarks2 += s2.marks[i];
```

C++ | Tab Width: 4 | Ln 1, Col 1 | INS

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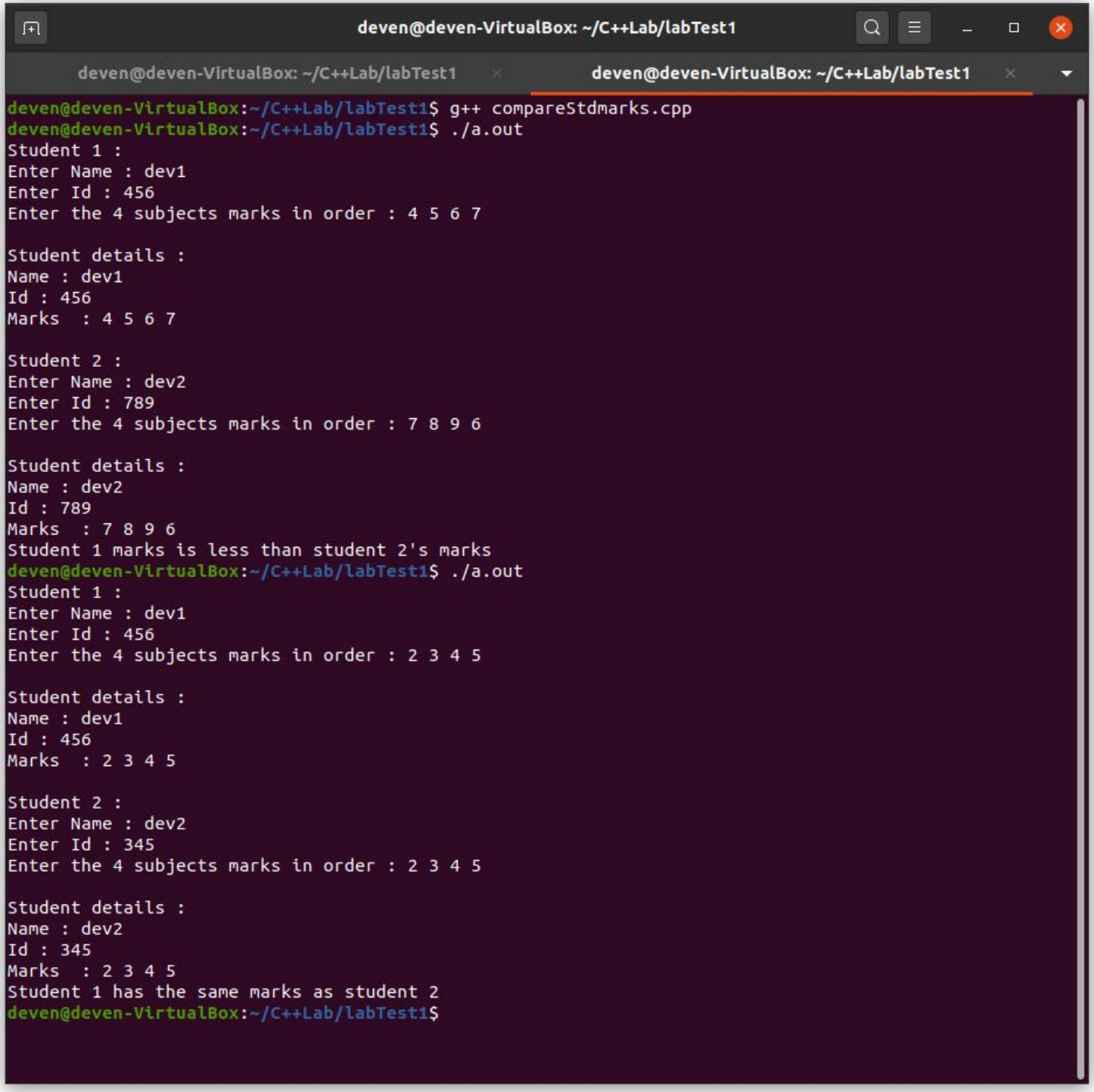
```cpp
    if(totalMarks1 == totalMarks2)
        return true;
    else
        return false;
}

bool Student::operator>(Student s2)
{
    int totalMarks1 = 0, totalMarks2 = 0;
    for(int i = 0; i < 4; ++i)
    {
        totalMarks1 += marks[i];
        totalMarks2 += s2.marks[i];
    }
    if(totalMarks1 > totalMarks2)
        return true;
    else
        return false;
}

void Student::outputData()
{
    cout << endl << "Student details : " << endl;
    cout << "Name : " << name << endl;
    cout << "Id : " << id << endl;
    cout << "Marks  : ";
    for(int i = 0; i < 4; ++i)
        cout << marks[i] << " ";
    cout << endl;
}

int main()
{
    Student s1, s2;
    cout << "Student 1 : " << endl;
    s1.inputData();
    s1.outputData();
    cout << endl << "Student 2 : " << endl;
    s2.inputData();
    s2.outputData();
    if(s1 == s2)
        cout << "Student 1 has the same marks as student 2" << endl;
    else if(s1 > s2)
        cout << "Student 1 marks is greater than student 2's marks" << endl;
    else
        cout << "Student 1 marks is less than student 2's marks" << endl;
    return 0;
}
```

C++ | Tab Width: 4 | Ln 83, Col 2 | INS


deven@deven-VirtualBox: ~/C++Lab/labTest1
deven@deven-VirtualBox: ~/C++Lab/labTest1
deven@deven-VirtualBox: ~/C++Lab/labTest1
deven@deven-VirtualBox:~/C++Lab/labTest1$ g++ compareStdmarks.cpp
deven@deven-VirtualBox:~/C++Lab/labTest1$ ./a.out
Student 1 :
Enter Name : dev1
Enter Id : 456
Enter the 4 subjects marks in order : 4 5 6 7
Student details :
Name : dev1
Id : 456
Marks : 4 5 6 7
Student 2 :
Enter Name : dev2
Enter Id : 789
Enter the 4 subjects marks in order : 7 8 9 6
Student details :
Name : dev2
Id : 789
Marks : 7 8 9 6
Student 1 marks is less than student 2's marks
deven@deven-VirtualBox:~/C++Lab/labTest1$ ./a.out
Student 1 :
Enter Name : dev1
Enter Id : 456
Enter the 4 subjects marks in order : 2 3 4 5
Student details :
Name : dev1
Id : 456
Marks : 2 3 4 5
Student 2 :
Enter Name : dev2
Enter Id : 345
Enter the 4 subjects marks in order : 2 3 4 5
Student details :
Name : dev2
Id : 345
Marks : 2 3 4 5
Student 1 has the same marks as student 2
deven@deven-VirtualBox:~/C++Lab/labTest1$

Open | student.cpp ~/C++Lab/labTest1 | Save

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

class Student
{
    private:
        string name;
        int usn;
        int marks[3][6];
        float avgMarks[6];
    public:
        void inputData();
        void calculateAvgMarks();
        void outputData();
};

void Student::inputData()
{
    cout << "Enter Name : ";
    cin >> name;
    cout << "Enter USN : ";
    cin >> usn;
    for(int i = 0; i < 3; ++i)
    {
        cout << "Enter the 6 subjects marks in order of test " << i + 1 << " : ";
        for(int j = 0; j < 6; ++j)
            cin >> marks[i][j];
    }
}

void Student::calculateAvgMarks()
{
    int mark1, mark2;
    for(int i = 0; i < 6; ++i)
    {
        if(marks[0][i] >= marks[1][i])
        {
            mark1 = marks[0][i];
            if(marks[1][i] >= marks[2][i])
                mark2 = marks[1][i];
            else
                mark2 = marks[2][i];
        }
        else
        {
            mark1 = marks[1][i];
            if(marks[0][i] >= marks[2][i])
```

C++ | Tab Width: 4 | Ln 1, Col 1 | INS

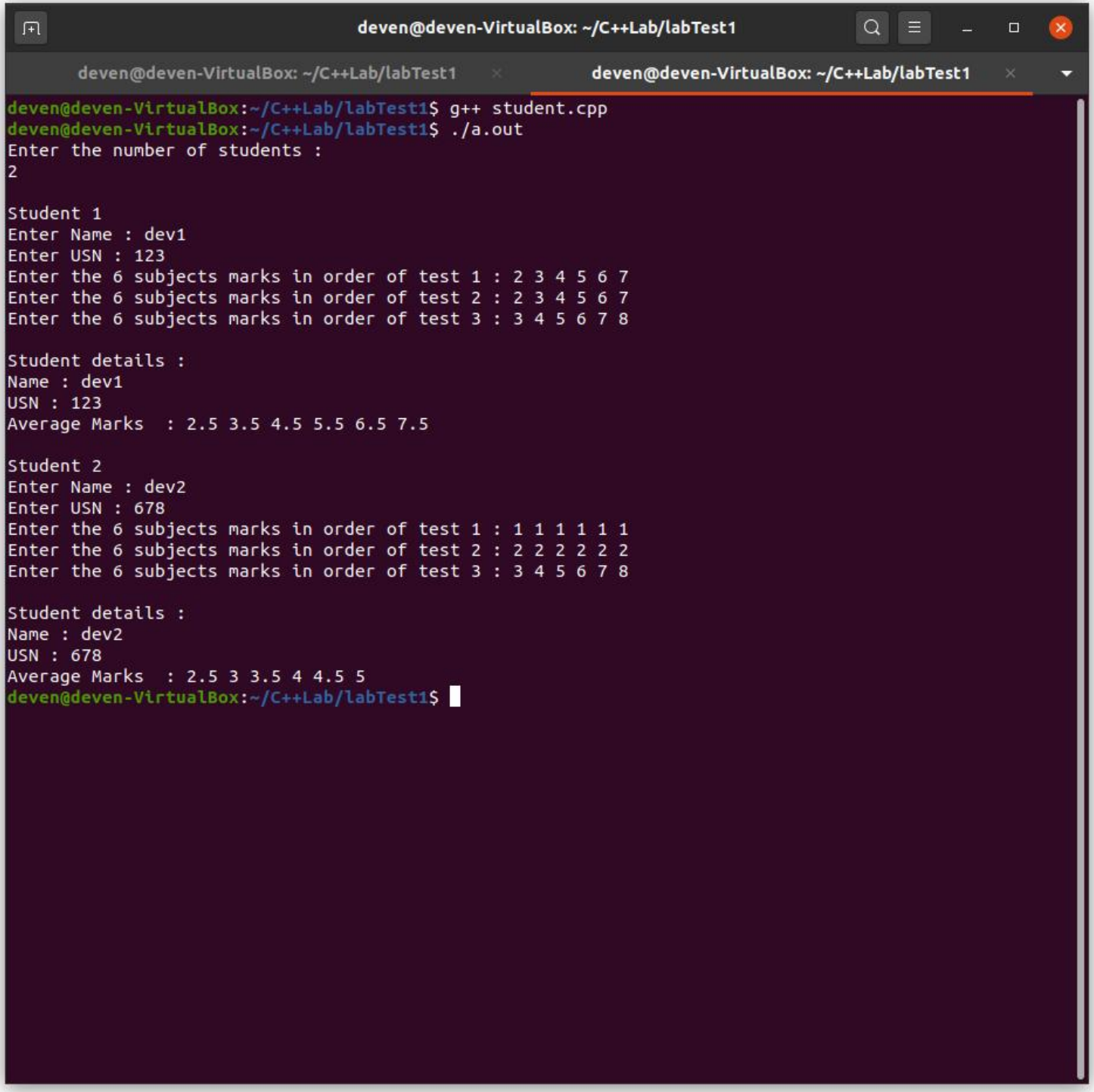
Open | student.cpp ~/C++Lab/labTest1 | Save

```
    for(int i = 0; i < 6; ++i)
    {
        if(marks[0][i] >= marks[1][i])
        {
            mark1 = marks[0][i];
            if(marks[1][i] >= marks[2][i])
                mark2 = marks[1][i];
            else
                mark2 = marks[2][i];
        }
        else
        {
            mark1 = marks[1][i];
            if(marks[0][i] >= marks[2][i])
                mark2 = marks[0][i];
            else
                mark2 = marks[2][i];
        }
        avgMarks[i] = static_cast<float>(mark1 + mark2) / 2;
    }
}

void Student::outputData()
{
    cout << endl << "Student details : " << endl;
    cout << "Name : " << name << endl;
    cout << "USN : " << usn << endl;
    cout << "Average Marks  : ";
    for(int i = 0; i < 6; ++i)
        cout << avgMarks[i] << " ";
    cout << endl;
}

int main()
{
    int n;
    cout << "Enter the number of students : " << endl;
    cin >> n;
    Student s[n];
    for(int i = 0; i < n; ++i)
    {
        cout << endl << "Student " << i + 1 << endl;
        s[i].inputData();
        s[i].calculateAvgMarks();
        s[i].outputData();
    }
    return 0;
}
```

Bracket match found on line: 68 | C++ | Tab Width: 4 | Ln 81, Col 2 | INS


deven@deven-VirtualBox: ~/C++Lab/labTest1
deven@deven-VirtualBox: ~/C++Lab/labTest1
deven@deven-VirtualBox: ~/C++Lab/labTest1
deven@deven-VirtualBox:~/C++Lab/labTest1$ g++ student.cpp
deven@deven-VirtualBox:~/C++Lab/labTest1$ ./a.out
Enter the number of students :
2
Student 1
Enter Name : dev1
Enter USN : 123
Enter the 6 subjects marks in order of test 1 : 2 3 4 5 6 7
Enter the 6 subjects marks in order of test 2 : 2 3 4 5 6 7
Enter the 6 subjects marks in order of test 3 : 3 4 5 6 7 8
Student details :
Name : dev1
USN : 123
Average Marks : 2.5 3.5 4.5 5.5 6.5 7.5
Student 2
Enter Name : dev2
Enter USN : 678
Enter the 6 subjects marks in order of test 1 : 1 1 1 1 1 1
Enter the 6 subjects marks in order of test 2 : 2 2 2 2 2 2
Enter the 6 subjects marks in order of test 3 : 3 4 5 6 7 8
Student details :
Name : dev2
USN : 678
Average Marks : 2.5 3 3.5 4 4.5 5
deven@deven-VirtualBox:~/C++Lab/labTest1$