

Answer on Question#39470- Programming, C++

1. Alberta Einstein teaches a business class at Podunk University. To evaluate the students in this class, she has given three tests. It is now the end of the semester and Alberta would like to have a program that inputs each student's test scores and outputs the average score for each student and the overall class average. (Hint: The outer loop should allow for Ms. Einstein to input all the students, one by one, and the inner loop should accept the three exam scores and compute the average for each student.)

Solution.

```
#include <iostream>

using namespace std;
int main(int argc, char* argv[])
{
    const int cnt_std=100;
    int sudent[cnt_std][3]={0};
    cout<<"To calculate the press (!)"<<endl<<"===== ";

    int i;char ch[100]={0};
    for( i=0; i<cnt_std; i++)
    {
        cout<<endl<<endl<<"Student Number: "<<i+1<<endl;
        for(int j=0; j<3; j++)
        {
            cout<<"Enter "<<j+1<<" assessment: ";
            cin>>ch;
            if(ch[0]=='!'){break;}
            sudent[i][j]=atoi(ch);
        }
        if(ch[0]=='!'){break;}
    }

    int avrg=0;
    for( int n=0; n<i; n++)
    {
        cout<<endl<<"Student Number: "<<n+1;
        for(int j=0; j<3; j++)
        {
            avrg+=sudent[n][j];
        }
        cout<<" Average rating: "<<avrg/3;
    }

    cin.get();cin.get();
    return 0;
}
```

```
d:\Projects\qQqQ\Debug\qQqQ.exe
To calculate the press (!)
=====

Student Number: 1
Enter 1 assessment: 5
Enter 2 assessment: 6
Enter 3 assessment: 2

Student Number: 2
Enter 1 assessment: 3
Enter 2 assessment: 2
Enter 3 assessment: 3

Student Number: 3
Enter 1 assessment: 1
Enter 2 assessment: 2
Enter 3 assessment: 3

Student Number: 4
Enter 1 assessment: ?

Student Number: 1 Average rating: 4
Student Number: 2 Average rating: 7
Student Number: 3 Average rating: 9
```