#include <iostream>

using namespace std;

#include<iomanip>

class Student

{

private:

int Roll\_Number, Marks[5];

char Stud\_Name[80], Class;

float Per;

public:

void accept();

void display();

};

void Student :: accept()

{

cout << " Accept Student Roll Number "<< endl;

cin >> Roll\_Number;

cout << " Accept Student Name"<< endl;

cin >> Stud\_Name;

cout << " Accept Student Marks "<< endl;

float total = 0;

for( int i = 0; i < 5; i++)

{

cout << " \t Subject "<< i + 1 << endl;

cin >> Marks[i];

total = total + Marks[i];

}

Per = total / 5; // calculate Percentage

if(Per < 60)

Class='B';

if((Per >= 60)&&(Per < 70))

Class='A';

if(Per >= 70)

Class='O';

}

void Student :: display()

{

cout << setw(7) << Roll\_Number << setw(7) << Stud\_Name << setw(7);

for( int i = 0; i < 5; i++)

cout<< Marks[i] << setw(7);

cout << setw(7) << setprecision(2) << Per << " " << Class << "\n";

}

int main()

{

int n, i;

Student p[20];

cout << " \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* " << endl;

cout << " \t How many Student data to enter " << endl;

cout << " \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* " << endl;

cin >> n;

cout << " \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* " << endl;

cout << " \t Enter Student Details " << endl;

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

{

cout<<"\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* " << endl;

cout<<"\t Enter Student Details of Student := " << i + 1 << endl;

cout<<"\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* " << endl;

p[i].accept();

}

cout << " \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* " << endl;

cout << " Display Student Details " << endl;

cout << " \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* " << endl;

cout << setw(7) << "RNO" << setw(7) << "SName" << setw(7) << "Sub1";

cout << setw(7) << "Sub 2"<< setw(7) << "Sub 3" << setw(7) << "Sub4";

cout<< setw(7) << "Sub 5" << setw(7) << "Per" << setw(7) << "Class" <<endl;

cout << " \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* " << endl;

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

p[i].display();

cout << " \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* " << endl;

return 0;

}