#include<iostream>  
#include<stdio.h>  
using namespace std;  
  
class Student  
{  
        int roll;  
        char name[25];  
    public:  
        void getdata()  
        {  
                cout<<"\n -----------------------------------------";  
                cout<<"\n Enter Roll No.            : ";  
                cin>>roll;  
                cout<<"\n Enter Student Name        : ";  
                cin>>name;  
        }  
        void putdata()  
        {  
                cout<<"\n -----------------------------------------";  
                cout<<"\n \*\*\*\*\*\*\*\*\*\* Student Marklist \*\*\*\*\*\*\*\*\*\*";  
                cout<<"\n -----------------------------------------";  
                cout<<"\n Roll No.             :  "<<roll;  
                cout<<"\n Student Name         :  "<<name<<endl;  
        }  
};  
class StudentExam : public Student      //Class StudentExam derived from Class Student  
{  
    public:  
        int sub1, sub2, sub3, sub4, sub5, sub6;  
        float per;  
    public:  
        void accept\_data()  
        {  
                getdata();  
                cout<<"\n Enter Marks for Subject 1 : ";  
                cin>>sub1;  
                cout<<"\n Enter Marks for Subject 2 : ";  
                cin>>sub2;  
                cout<<"\n Enter Marks for Subject 3 : ";  
                cin>>sub3;  
                cout<<"\n Enter Marks for Subject 4 : ";  
                cin>>sub4;  
                cout<<"\n Enter Marks for Subject 5 : ";  
                cin>>sub5;  
                cout<<"\n Enter Marks for Subject 6 : ";  
                cin>>sub6;  
        }  
        void display\_data()  
        {  
                putdata();  
                cout<<"\n Marks of Subject 1   :  "<<sub1;  
                cout<<"\n Marks of Subject 2   :  "<<sub2;  
                cout<<"\n Marks of Subject 3   :  "<<sub3;  
                cout<<"\n Marks of Subject 4   :  "<<sub4;  
                cout<<"\n Marks of Subject 5   :  "<<sub5;  
                cout<<"\n Marks of Subject 6   :  "<<sub6;  
        }  
};  
class StudentResult : public StudentExam      //Class StudentResult derived from Class StudentExam  
{  
    public:  
        void calculate ()  
        {  
                per = (sub1+sub2+sub3+sub4+sub5+sub6)/6;  
                cout<<"\n\n Total Percentage     :  "<<per;  
                cout<<"\n ----------------------------------------- \n";  
        }  
};  
int main()  
{  
        StudentResult str;     //Object 'str' is created of derived Class StudentResult  
        int cnt, i;  
        cout<<"\n Enter No. of Students You Want: ";  
        cin>>cnt;  
        for(i=0; i<cnt; i++)  
        {  
                str.accept\_data();  
                str.display\_data();  
                str.calculate();  
        }  
        return 0;  
}