ASSIGNMENT-C++

```
/*
 Q1. WAP to store student roll_no, name, marks in 5 subjects, total marks
and percentage
for 5 students.
a.    Include a function to take roll_no,name and m from user using input
function.
b.    Include a function to display all the details of a student.
c.    Include a cal() function in private area to cal total_m and
percentage.
Let the input function invoke this function.

*/



#include <iostream>     //header file for input and output
using namespace std;
class student          //Declare a class
{
    int rno,m[5],total_m=0;  //Declare data member
    float percentage;
    char name[];
    float cal();
public:
    void input();            //Declare member-function
    void output();



};
void student :: input()      //Defination of input function
{
    cout<<"Enter your name & rno->"<<endl;
    cin>>name>>rno;
    cout<<"Enter your m"<<endl;
    for(int i=0;i<5;i++)
    {cout<<"Subject "<<i+1<<" ";
    cin>>m[i];
    }
    cal();
```

```cpp
}
void student:: output()              //Defination of output function
{

    cout<<endl<<"Name:"<<name<<endl<<"Rno:"<<rno<<endl;
    cout<<"M are:"<<endl;
     for(int i=0;i<5;i++)
    {cout<<"Subject "<<i+1<<": ";
    cout<<m[i]<<"   ";
    }
    cout<<endl;
}
float student::cal()  //Calculate percentage
{
    cout<<"total m are:";
    for(int i=0;i<5;i++)
    {
        total_m=total_m+m[i];
    }
    cout<<"Total:"<<total_m<<endl;
    percentage=total_m/5.0;
    cout<<"Percentage:"<<percentage;
}
int main()
{
    student s[5];               //Declare a object
   for(int i=0;i<5;i++)
   {
       s[i].input();           //calling function
       s[i].output();                 //calling function
   }
    return 0;
}
```

OUTPUT

```
Select "D:\Learning\codeblock\C&O 1\bin\Debug\C&O 1.exe"
Enter your name & rollno->
Prashant
78
Enter your marks
Subject 1 67
Subject 2 89
Subject 3 65
Subject 4 78
Subject 5 97
total marks are:Total:396
Percentage:79.2
Name:Prashant
Rollno:78
Marks are:
Subject 1: 67   Subject 2: 89   Subject 3: 65   Subject 4: 78   Subject 5: 97
Enter your name & rollno->
Bhim
75
Enter your marks
Subject 1 65
Subject 2 67
Subject 3 86
Subject 4 45
Subject 5 98
total marks are:Total:361
Percentage:72.2
Name:Bhim
Rollno:75
Marks are:
Subject 1: 65   Subject 2: 67   Subject 3: 86   Subject 4: 45   Subject 5: 98
```