**1.ALGORITHM:**

//Student Information

//The program uses the concept of class and objects with

constructor.

1. Declare a class for student information and mention the

name, usn, m1, m2, m3, total, percentage as private.

2. In public declare constructor and ask for the inputs mentioned

in constructor.

3. Declare calculate and showdata function.

4. In main function

1. Ask for number of students.

2. Then call for calcualte and showdata functions.

**2.CODE WITH COMMENTS:**

#include<iostream>

using namespace std;

int j=0;

class studentinfo{

private :

string name;

int usn;

int m1,m2,m3;

float total,percentage;

public :

studentinfo()

{

j++;

cout<<"Enter the Information of student "<<j<<endl;

cout<<"Enter the student name : "<<endl;

cin>>name;

cout<<"Enter the usn of the student : "<<endl;

cin>>usn;

cout<<"Enter the marks of the marks of three subjects : "<<endl;

cin>>m1>>m2>>m3;

}

void calculate()

{

total=m1+m2+m3;

percentage=(total/3);

}

void showdata()

{

cout<<"||||||||||||||||||||||||||||||||||||\n";

cout<<"\tThe student name is : "<<name<<endl;

cout<<"\tThe student usn is : "<<usn<<endl;

cout<<"\tThe student marks for\n\tm1 : "<<m1<<"\n\tm2 is

:"<<m2<<"\n\tm3 is :"<<m3<<endl;

cout<<"\tThe Total is : "<<total<<endl<<"The percentage is

:"<<percentage<<"%"<<endl;

cout<<"||||||||||||||||||||||||||||||||||||\n";

}

}; //class studentinfo defined to getinfo and calculate total and showdata

int main()

{

int i,n;

cout<<"Enter the number of students :"<<endl;

cin>>n;

studentinfo s[n]; //array of objects of class student

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

{

s[i].calculate(); //call calculate()

s[i].showdata(); //call showdata()

}

}

**3.SAMPLE OUTPUT AND INPUT**:

Enter the number of students :

3

Enter the Information of student 1

Enter the student name :

SINCHANA

Enter the usn of the student :

318

Enter the marks of the marks of three subjects :

90 94 97

Enter the Information of student 2

Enter the student name :

SRINIDHI

Enter the usn of the student :

336

Enter the marks of the marks of three subjects :

89 88 85

Enter the Information of student 3

Enter the student name :

SPARSH

Enter the usn of the student :

312

Enter the marks of the marks of three subjects :

78 89 97

||||||||||||||||||||||||||||||||||||

The student name is : SINCHANA

The student usn is : 318

The student marks for

m1 : 90

m2 is :94

m3 is :97

The Total is : 281

The percentage is :93.6667%

||||||||||||||||||||||||||||||||||||

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The student name is : SRINIDHI

The student usn is : 336

The student marks for

m1 : 89

m2 is :88

m3 is :85

The Total is : 262

The percentage is :87.3333%

||||||||||||||||||||||||||||||||||||

||||||||||||||||||||||||||||||||||||

The student name is : SPARSH

The student usn is : 312

The student marks for

m1 : 78

m2 is :89

m3 is :97

The Total is : 264

The percentage is :88%

||||||||||||||||||||||||||||||||||||

Process returned 0 (0x0) execution time : 97.879 s