LAB- 2.

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Date _____ Page _____

* Develop a java prog to create a class student with members usn, name, an array credits and an array marks. Include the method to accept & display details & a method to calculate SGPA of a student.

```
import java.util.Scanner;
class Student
{
String usn, name;
Static int credits[];
Static double marks[];
void input (int n)
{
Scanner sc = new Scanner(System.in);
SOP("Enter usn & name");
usn = sc.nextLine();
name = sc.nextLine();
SOP("Enter marks along with cred\n");
for(int i=0; i<n; i++)
{
    marks[i] = sc.nextDouble;
    credits[i] = sc.nextInt;
    SOP();
}
}
double calculate(int n)
{
    int c, cred=0;
```

```
double tot, total=0.0;
for(int i=0; i<n; i++)
    {
        tot = marks[i];
        if (tot>=90)
          c=10;
        else if (tot >= 80)
          c=9;
        else if (tot >= 70)
          c=8;
        else if (tot > 60)
          c=7;
        else if (tot > 50)
            c=6;
        else if (tot>40)
            c=5;
          else
          c= 0;
        total = total +(c* credits[i]);
        cred = cred + credits[i];
    }
    total=total/cred;
    return (total);
}
void display (int n, double total)
{
    SOP("name of student : " +name);
    SOP ("usn of student : " + usn);
    SOP ("marks of student along with credits of course");
```

```
for(int i=0; i<n; i++)
  {
    SOP(marks[i]+" "+total);
}
public static void main(String args[])
{
 Scanner sc=new Scanner(System.in);
Student obj=new Student();
SOP("Enter no of course");
 int n=sc.nextInt();
credits=new int[n];
marks=new double[n];
obj.input(n);
double total=obj.calculate(n);
 obj.display(n,total);
}
}
```