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Q2) FIND THE SGPA OF STUDENT USING ARRAY

PROGRAM

```
import java.util.Scanner;

class Student
{
    private String USN;
    private String name;
    private int n;
    private double SGPA = 0;
    private int totalCredits = 0;
    Scanner ss = new Scanner(System.in);

    void Details()
    {
        System.out.println("Enter USN of the student");
        USN = ss.nextLine();

        System.out.println("Enter Name of the student");
        name = ss.nextLine();

        System.out.println("Enter no of subjects");
        n = ss.nextInt();

        int credits[] = new int[n];
        double marks[] = new double[n];

        System.out.println("Enter details of the subjects:");
        for(int i=0;i<n;i++)
        {
```

```

System.out.println("Enter credits allotted to the subject "+(i+1));

credits[i] = ss.nextInt();

System.out.println("Enter marks in the subject "+(i+1));

marks[i] = ss.nextInt();

Calculate(credits[i],marks[i],i);
}

}

void Calculate(int credit,double mark,int j)
{
totalCredits = totalCredits + credit;

if(mark>=90&&mark<=100)

SGPA = SGPA + (10*credit);

else if(mark>=80 && mark<=89)

SGPA = SGPA + (9*credit);

else if(mark>=70&&mark<=79)

SGPA = SGPA + (8*credit);

else if(mark>=60&&mark<=69)

SGPA = SGPA + (7*credit);

else if(mark>=50 && mark<=59)

SGPA = SGPA + (6*credit);

else if(mark>=40&&mark<=49)

SGPA = SGPA + (5*credit);

else

System.out.println("Failed in ubject "+(j+1));
}

void Display()
{

System.out.println("Details of the Student");

System.out.println("Name :"+name);

```

```

System.out.println("USN: "+USN);

System.out.println("SGPA of student "+(SGPA/totalCredits));

}

}

public class Lab2

{

    public static void main(String args[])

    {

        Student s1 = new Student();

        s1.Details();

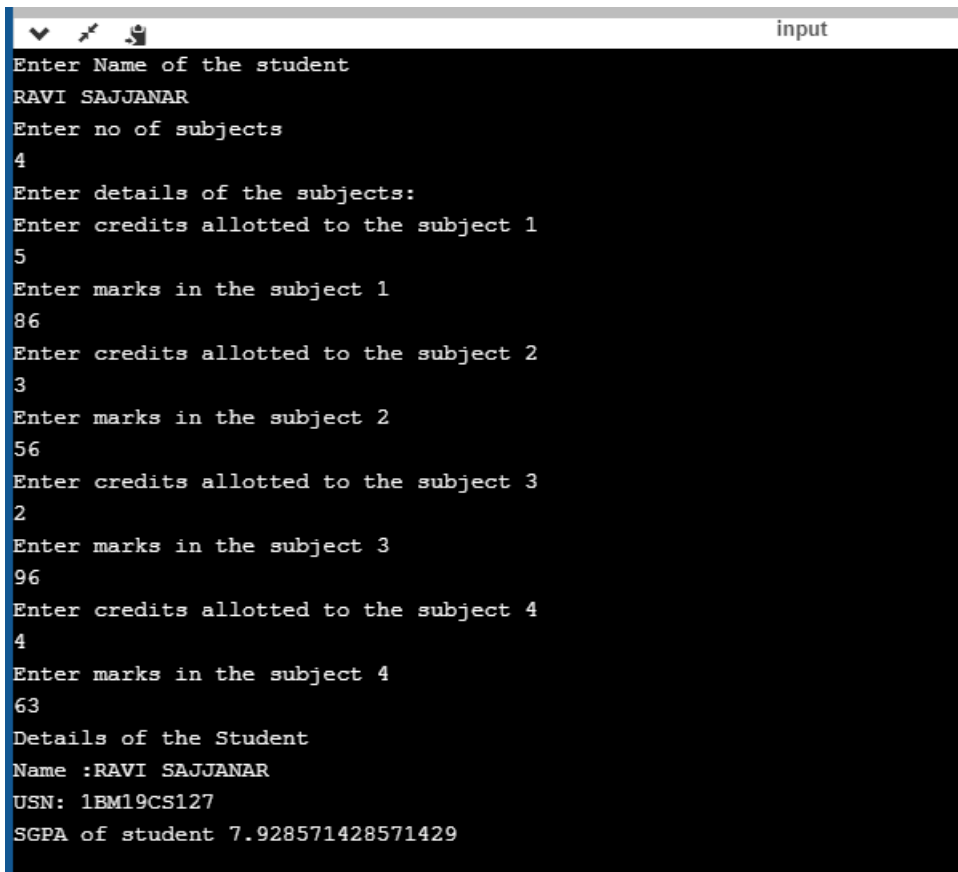
        s1.Display();

    }

}

```

OUTPUT:



```

input
Enter Name of the student
RAVI SAJJANAR
Enter no of subjects
4
Enter details of the subjects:
Enter credits allotted to the subject 1
5
Enter marks in the subject 1
86
Enter credits allotted to the subject 2
3
Enter marks in the subject 2
56
Enter credits allotted to the subject 3
2
Enter marks in the subject 3
96
Enter credits allotted to the subject 4
4
Enter marks in the subject 4
63
Details of the Student
Name :RAVI SAJJANAR
USN: 1BM19CS127
SGPA of student 7.928571428571429

```

