

```

import java.util.Scanner;
class Subject {
    int submarks;
    int credits;
    int grade;
}

```

```

Student class Student
{
    Subject subject[];
    String name;
    String usn;
    double SGPA;
    Scanner s;
    int i;
}

```

```

Student()
{
    int i;
    subject = new Subject[8];
    for (i = 0; i < 8; i++)
        subject[i] = new Subject();
    s = new Scanner(System.in);
}

void getStudentDetails()
{
    System.out.println("Enter your name: ");
    name = s.next();
    System.out.println("Enter your usn: ");
    usn = s.next();
}

void getMarks()
{
    for (i = 0; i < 8; i++)
        System.out.println("Enter marks of subject " + (i + 1) + ": ");
}

```

Q) Develop a Java program to create a class Student with members USN, name, an array credits & an array marks. Include methods to accept & display details & a method to calculate SGPA of a student.

```

subject[i].subMarks = s.nextInt();
System.out.println("Enter credits of subject" + (i+1) + ":");
subject[i].credits = s.nextInt();
subject[i].grade = (subject[i].subMarks/10)+1;

```

```

}

```

```

}

```

```

void compute SGPA()

```

```

{

```

```

    int effscore = 0;

```

```

    int totalcreds = 0;

```

```

    for (i=0; i<8; i++)

```

```

    {

```

```

        effscore += subject[i].grade * subject[i].credits;

```

```

        totalcreds += subject[i].credits;

```

```

    }

```

```

    SGPA = (double) effscore / (double) totalcreds;

```

```

}

```

```

}

```

```

class SGPA

```

```

{
    public static void main(String args[])

```

```

    {

```

```

        student s1 = new student();

```

```

        s1.getMarks();

```

```

        s1.compute SGPA();

```

```

        System.out.println("Name:" + s1.name);

```

```

        System.out.println("USN:" + s1.usn);

```

```

        System.out.println("SGPA:" + s1.SGPA);

```

```

    }

```

```

}

```


OUTPUT:

Enter your name: Sanga

Enter your usn: 237

Enter marks of subject 1:

90

Enter credits of subject 1:

4

Enter marks of subject 2:

90

Enter credits of subject 2:

4

Enter marks of subject 3:

85

Enter credits of subject 3:

3

Enter marks of subject 4:

85

Enter credits of subject 4:

2

Enter marks of subject 5:

79

Enter credits of subject 5:

2

Enter marks of subject 6:

78

Enter credits of subject 6:

1

Enter marks of subject 7:

90

Enter credits of subject 7:

1

Enter marks of subject 8:

92

Enter ~~marks~~ ^{credits} of subject 8:

2

Over
14/12-22

Name: Sanga

USN: 237

SGPA: 9.35