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.

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

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)+":");
```

```
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 computeSGPA()
{
  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.computeSGPA();
  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:
3
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 credits of subject 8:
2

Name: sanga
USN: 237
SGPA: 9.35