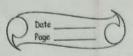
2) Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

	Date Page
2)	import perelop a java proy to orear a class
	coredits array, gradepoint array calculate
	SGPA SGPA
	L. Ontrod of page 15 from siding
	importe java util
	Comme to making I will sold the with 190
	class stud (man distance to the line)
	postrate string usn;
· Kr.Da	pervate string name!
	pairate snt[] creditis
	perivate doublet 3 masks:
	10100 Mars 1 Males
	public studient numsus)1
	Credi K = new int [numsub]:
	masks = new double Entire ub Ji
	L Variance of the second
1	public void gitest
	Scannes sc=new Scannes (syskm.in)
	System-out-painth ("Enter Oin, Nane)
	80 Lagn=scinentLine( )
	name-sc.nentline();
	for Cint i=0; i < conedity. length ; 1++)
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
	System · out · psinin ("Enter Credity for subject "+
	C(+1)+";");
	coedisti) = sc next Inte );
	Coper francis warming the
	Consequence I recolumn de la lace de lace de la lace de
	Carponers grandled

```
Systemant par attn ( Enter marke"):
maskefil = screet Double();
public void display Details() {
  Systemout printing UN: " rain);
   Bystem out : pai ntln ("Mamei" + name);
  for lint 1=0; 12 condition umsub ; i++) }
  Lved: 15: " + caedits of 7 ", Marks 1 "+ mass 10);
 public darble call) L
   double total points =0;
   Int total caediney
 for (int i=0; ix numsubjit+){
      to rat point + = ( masks[i] + Oredis[i])
      total oredit += creditii]
      neturn total points/to tal ored is:
 gublic class Mainsgral
  public static road main (string [] angs)?
     Scanner scinen Scanner (systemin).
    Systemour print (" Enter no of subjects")
       int number schertInt();
       Student student new student (enumous);
         studen stud. get ();
```



11		
	System out painting "Student details!").	
9.4	Stud display details ! ");	(6
	student displaydetails():	
	double sq.pa = student calsq.pa();	
	1 ( 8 ( 0 ) ) 1 1 1	10.00
	sc. close();	
	The case of the state of the st	
	3 in a least scale distribute	
	Enter number of subjects 2	-
	Enter usnizi	
	Enter name west	14/2
	Enter credits for subject 1:2	
	Enter gradepoint for subject 1:9	
	Enter erealts for subject 2:4	
	Enter gradepoint for subject 217	
	8	
	Student detaill	
	USN :230	
	Name west	
	Subject 1 - credit: 2, gradepoint : 9	
4	Subject 2- Credits ! 4, gradepoint ?	
	SGPA: 7.666	
	Chart stands who were the second	
	and the second description being	
194	and the state of the second of the second	
-		1
	Show the first transfer to the state of the	-
		-

```
import java.util.Scanner;
class Student {
  private String usn;
  private String name;
  private int[] credits;
  private double[] marks;
  public Student(int numSubjects) {
     credits = new int[numSubjects];
     marks = new double[numSubjects];
  }
     public void acceptDetails() {
     Scanner sc = new Scanner(System.in);
     System.out.print("Enter USN: ");
     usn = sc.nextLine();
     System.out.print("Enter Name: ");
     name = sc.nextLine();
     for (int i = 0; i < credits.length; i++) {
       System.out.print("Enter credits for subject " + (i + 1) + ": ");
       credits[i] = sc.nextInt();
       System.out.print("Enter gradepoint for subject " + (i + 1) + ": ");
       marks[i] = sc.nextDouble();
```

```
}
    public void displayDetails() {
     System.out.println("USN: " + usn);
     System.out.println("Name: " + name);
     for (int i = 0; i < credits.length; i++) {
        System.out.println("Subject " + (i + 1) + " - Credits: " + credits[i] + ", gradepoints: " +
marks[i]);
   }
   public double calculatesgpa() {
     double totalPoints = 0;
     int totalCredits = 0;
     for (int i = 0; i < credits.length; i++) {
       totalPoints += (marks[i] * credits[i]);
       totalCredits += credits[i];
     return totalPoints / totalCredits;
//totalCredits == 0 ? 0 : totalPoints / totalCredits;
  }
}
public class Mainsgpa {
  public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
```

```
System.out.print("Enter the number of subjects: ");
     int numSubjects = sc.nextInt();
     Student student = new Student(numSubjects);
     student.acceptDetails();
     System.out.println("\nStudent Details:");
     student.displayDetails();
     double sgpa = student.calculatesgpa();
     System.out.println("SGPA: " + sgpa);
     sc.close();
}
output
 C:\Users\hp\Desktop\java>java Mainsgpa
 Enter the number of subjects: 3
 Enter USN: 348
 Enter Name: ritik
```