3/10/24	Prope No. Drite
	Program To a service of the service
V + 12 4	Revelop java program to create a class student with members usn, name, array credits and array marks.
	Include methods to accept and display details and a
to him	mothed to calculate SGPA of a student.
-	(milanemanas (13-13ris) -34
	inport java, util. Scanner;
(211)	Frederical Frederical Contraction Contract
72	class Student a many . 22 - Many 18
47	2
100	String name;
	Storing usn; " (1 yourself) driver
to I to	int numsub;
	int [] credits;
	int[] marks;
take a second	Student lint num)
Charles .	the Contraction of the contraction of the contraction
Part I	numsub = num;
	credits = new int [numsub];
1200	manks = new int [numsub];
The state of	: " +30 +54 her" despessor 12 marines adult marines
170	vad accept Betails ()
1	C
4X ()/	Scanner sc:= new Scanner (system.in);
1.	System, out, printer ("Enter USN: ");
1	usn = sc. nextline();
244	System. act, printer ("Enter name:");
	name = sc. nextline();
	System, aut, printen l'Enter Gudits for each subject;
	to the first of the second section of

	Page No. Date	
	" (or (int l=0; ix numsub; i++)	
	ξ	
alter.	System. out. println ("Gudits Gor Subject"+ (i+)	+ ": "/j
A SERVER	credits [i] = sc. nextInt();	
and the second	the officer days and a made of about	
•	system, out, printer ("Enter marks 602 each subject;")	
	for lint i=0; (knumsub; i++)	\
	manus Manus Service	
Del more	System. out, println ("Marks For subject" + (1+1)+	"; "/j
Con thinks	6 marks[i] = sc, nextInt();	
	3	9
	3 count agree	
1	void display()	
	I distribute and	
E.	System. out. println (" Instudent mame Actails: ");	1
	System. out, printer ("USN:"+USN);	
the residence	system, out, minter ("Name: "+ name);	
- Heriag	Sistem out minten to subject that fredito	"-Credits
	System, out, printer l'Insubject-wise Gredits and	,
	marks");)
-117	For (int i = 0; i < num sub; i++)	
Test star	- I was become to define the state of the st	
Mary Market	System. out, printen ("Subject" + (i+1) + ": Gredits =	71
10 do	+ credit [i] + ", marks = " + marks [i]);	
32 3843 11 11 11 11 11 11 11 11 11 11 11 11 11	3	
	System. out. printen ("SGPA: "+ (alculate SGPA());	
	3 and and the second district the second of the second	
	double calculate Sapal)	The state of the s
	1	1
	() Lander Cartha - C'aith and a distant	
	int total Gredtts = 0;)
	int botal Grade points = 0;	
A Cheller	for lint 1=0; i < numsum; l++)	1985

Jas.	Pege No. Deta
2	total Credits += Credits [i];
	int gradepoint - calculatebrodepoint (marksti
mak v	total Gradepoints += gradepoint * credits [i];
3	and the same and t
910	turn (double) total Gradepoints / total Gredits;
3	the state of the s
Asset 1	A Company of the second of the second
int a	alculateGradepaint (int marks)
	leading the subject has a
iy	(marks > = 90) 13 - 100 mg syllen)
	return 10;
us	e y (marks > = 80)
AL STATE	noturn 9; 15 to make the makes
ele	ce is (marks > = 70)
L.	geturn 8; 19 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ele	se is (marks > = 60) in the mark and an admitted as
	geturn 7;
1) + " Ma	Theres Harrist Stranger
	se y (marks >= 50) DESCRIBED INST
	gretura 6; strong H grening : since
el	se if (mades >= 40)
	roturn 5; or stilling many from the
ele	se noturno; . A = and : 1 + man ?
3	Backer I I madike to Marks = 16
A STATE OF THE STA	" " The state of t
	state void main (String [] augs)
	canner & = new Scanner (System. in);
	system. out, printer ("Enter number of subjects: ");
	int numsub = sc. nextInt();
	Student 3 = new Student (numsus);
11 1	sound sodetails ();
	5. display ();

	Page No. Date
	autput () lemman are religion of the
Company of the	Enter number of subjects; 5
170	Enter USN: IBM23CS330
	Enter name: Sinchana Hemanth
	Enter credits for each subject:
	Gredits for subject 1: 4
	Credits for subject 2: 4
	Oudres Con Subject 3: 3
	Gredits for subject 4:3
	Credits for subject 5: 2
, gar	Enter marks for each subject!
	Marks for subject 1: 98
	marks for subject 2: 95
	marks for subject 3: 91
	marks for subject 4:982
3/2	Marks Ba subject 5: 96
	The second country of the second seco
	Student Betails ! I was a state of the total of the
	USN: IBM23C5330 (Deline Birgan) is but, ment
	Name: Sinchana Hemanth
	the last of dollars between the self
	Subject-wise Gredits and Marks:
有 数	Subject 1: Gudits = 4 g Marks = 98
	Subject 2: Credits=4, marks = 95
100	Subject 3: Gredits = 3, Marks = 91
A STATE OF THE STA	Subject 4: Guidets = 3 , Marks = 92
	Subject 5: Credits = 2, Marks = 96
	SGPA (10.0) Constitution of the constitution
	the state of the s
	international state of the stat
	The three When the states a state of
	Land Carlo Carlo Company Control Company

```
import java.util.Scanner;
class Sgpacalc {
  String usn;
  String name;
  int numSubjects;
  int[] credits;
  int[] marks;
  Sgpacalc(int x) {
    numSubjects = x;
    credits = new int[numSubjects];
    marks = new int[numSubjects];
  }
  void acceptDetails() {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter USN: ");
    usn = sc.nextLine();
    System.out.print("Enter Name: ");
    name = sc.nextLine();
    System.out.println("Enter credits for each subject:");
    for (int i = 0; i < numSubjects; i++) {
       System.out.print("Credits for subject " + (i+1) + ": ");
      credits[i] = sc.nextInt();
    }
    System.out.println("Enter marks for each subject:");
    for (int i = 0; i < numSubjects; i++) {
       System.out.print("Marks for subject " + (i+1) + ": ");
```

```
marks[i] = sc.nextInt();
  }
}
void displayDetails() {
  System.out.println("\nStudent Details:");
  System.out.println("USN: " + usn);
  System.out.println("Name: " + name);
  System.out.println("\nSubject-wise Credits and Marks:");
  for (int i = 0; i < numSubjects; i++) {
    System.out.println("Subject " + (i+1) + ": Credits = " + credits[i] + ", Marks = " + marks[i]);
  }
  System.out.println("SGPA: " + calculateSGPA());
}
double calculateSGPA() {
  int totalCredits = 0;
  int totalGradePoints = 0;
  for (int i = 0; i < numSubjects; i++) {
    totalCredits += credits[i];
    int gradePoint = calculateGradePoint(marks[i]);
    totalGradePoints += gradePoint * credits[i];
  }
  return (double) totalGradePoints / totalCredits;
}
int calculateGradePoint(int marks) {
```

```
else if (marks >= 80) return 9;
       else if (marks >= 70) return 8;
       else if (marks >= 60) return 7;
       else if (marks >= 50) return 6;
       else if (marks >= 40) return 5;
       else return 0;
   }
   public static void main(String[] args) {
       Scanner sc = new Scanner(System.in);
       System.out.print("Enter number of subjects: ");
       int numSubjects = sc.nextInt();
       Sgpacalc s = new Sgpacalc(numSubjects);
       s.acceptDetails();
       s.displayDetails();
   }
}
D:\1BM23CS330>java Sgpacalc
Enter number of subjects: 5
Enter USN: 1BM23CS330
 Enter Name: Sinchana Hemanth
 Enter credits for each subject:
Credits for subject 1: 4
Credits for subject 2: 4
Credits for subject 3: 3
Credits for subject 4: 3
 Credits for subject 5: 2
Enter marks for each subject:
 Marks for subject 1: 90
Marks for subject 2: 95
 Marks for subject 3: 88
 Marks for subject 4: 91
Marks for subject 5: 98
 Student Details:
 USN: 1BM23CS330
 Name: Sinchana Hemanth
 Subject-wise Credits and Marks:
 Subject Wise Credits = 4, Marks = 90
Subject 1: Credits = 4, Marks = 95
Subject 2: Credits = 4, Marks = 95
Subject 3: Credits = 3, Marks = 88
Subject 4: Credits = 3, Marks = 91
Subject 5: Credits = 2, Marks = 98
```

if (marks >= 90) return 10;

SGPA: 9.8125 D:\1BM23CS330>