29/12/2023 LAB PROGRAM - 2 · Develop a Java program to vivate a class student with members usn, name, an away credits and an away make. Include methods to calculate 36PA of a student. import java. util. Scanner; class Student & String usn; de String name; int [] credits = new int [8]; int [] marks = new int [8]; public void accept Details () { Scanner Scanner = new Scanner (System.in); ENGLISH OF System.out. print ("Enter USN: "); and G usname = Scanner next line (); System. out. print (" Enter Name: "); name = Scamer. next Line (); System.out. println ("Enter details for each subject: In");

lor (int i = 0; i < Credits.length; i+t) & System. out. print ("In Enter credits for Subject" + (i+1) + ":");

Credits (i) = scanner. next Int (); System. out. print ("In Enter marks for Subject" + (i+1) + ": "); marks [i] = scanner. next Int (); Scanner Close ();

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public double calculate SGPA () &
       int total Credits of of int weighted Sum = 0; double ans;
      for (int i=0; i = credits length; it) (
      total Credits += credits []
       int grade Points;
      grade Points = (marks[i]/10) +1;
       if ( grade Points == 11 ) d
          1 grade Points = 10;
      else if ( grade Points <=4) (
  veighted Sum + = grade Points * credit []
   ons = (double) weighted sum / (double) total (m)
return ons;
Dublic void display Details () &
   System. Out. printly Coln Students Petails:
  System. out. print In ("USN: "+ Usn);
  System out Printin (" Name: " + name);
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public class sgpa & public static void main (string () args) Scanner & scanner = new Scanner (system.in); Student student = new Student (); student. accept Details (); student. display Details (); double sqpa = Student. calculate SGPA ();

system. out. println (" SGPA : " + sgpa);

Scanner. close (); Output : Enter the Student USN: 1BH 22 CS OII the student Name: ADARSH DEN SINGH Enter the subject Details: Enter the credits of subject 1: Enter the months of subject 1: 92
Enter the credits of subject 2: 4
Enter the months of subject 2: 93 Buter the Credits of Subject 3: Enter subject 3: the marks of Guter of subject 4: ENTER D subject 4: 95 futor the marles of Enter the credits of subject 5: 3
Enter the marks of subject 5: 92
Enter credits & margs of subject 3: 9 Enter of subject 6: 3 91 Subject 7: 2 85 Credits & marles of Subject 7: 1

Credito & marles of Subject 7: 1

Details: Ender Entit Student Details: The Student USN: JBM22CLOIN
The Student Name: ADARSH DEV SINGH SGPA: 9.9

(START) - main: Declare Student object as student accept Octails () + Run Student accept Details () method display Details () + Run stadent - display Details () method calculate SGPAI) + Run. student colculate SGPAII and assign it to double Print (" sqpa: "+ sqpa)" (STOP) or class Student: Declare (usn and name) String Declare int C87 credity Declare int [8] marks void occept Details () calculate scylA() biov void display Octails ()

durition void acceptatails: print (" Enter USN ") read Usn / ... Drint (" Enter Name") read name print (" Enter détails for each subject.") Diz credits. length itt print ("Enter medis for sub." + (i+i) + ":") > rint(" bother records | for subject (+ (i+1) + ": ") function void display Detrills: 101 print ( Student Details ) print (" USN : " + UCH) print ("Name : 5 + name)

function void calculate SGPA () initialize total (redits = 0 initialize weighted som = 0 double ans for int = 0, credits. length ; Total Credits += credits [i] declare int grade Points gradeloints = (marks [i] /10) + 1 if (gradePoints == 11) I grade Points = 10 cise if (grode Points <=4) gradeloints = 0 F weighted sum += grade Points + credits () (double) Weighted Sum 1 (double) total (red) return ons