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USN: 1BM21CS013

Class: 3A

Lab 2 Question: 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.

Program:

```
SGIPA Calculator
  import Java. util. Scanner;
 dan Subject
                                                          Section and paid ( " Enter make for sidget " !
                Int subject Marks; (1) the trans a examination of the subject Marks;
              int ocediti;
               Fint grade;
class Student + ( ) Advantage of the party o
              Subject subject[];
            String name;
               String usn;
               double SGPA;
              Student ()
                           Subject = new Subject [9];
                              for (i=0; ix9; i++)
                                          Subject[i] = new Subject ($);
                                              or Some + " subject (i) - grade & subject (1) excluse
          void get Student Details ()
                      Scanner s= new Scanner (System.in);
                      System. out. printer ("Enter your name: ");
                       name = s.nent();
                       System. out. print ("Enter your USN: ");
                       usn = s. nent();
```

```
void getMarks()
        Scanner s = new Scanner (systemoin);
       fa (inti=0; i<9; i++)
          System out print ("Enter marks for subject "+ (i+1)+": ").
          subject (i]. subject Marks = s-nent Int ();
          System out point ("Enter credits: ");
         subject[i]. subj credits = s. nentInt();
         Subject[i]. grade = (subject[i]. subject Marks/10) + 1;
         if (subject [i]. grade (=4)
           subject [i] grade = 0;
     getSGPA()
void
     ant effective Score = 0;
    Port total Gredits = 0;
     for (Int i = 0) ix 9; i++)
         effective Score + = subject [i]-grade * subject [i]- oredits;
        total Gedits += subject [i]. credits;
    3G1PA = (double) effective Score / (double) total Gredits;
```

```
class Main
      Public Static void main (String args [])
           Student 81 = new Student ();
           $1. get Student Details ();
           S1. get Marks ();
                                         ELOSTICHEL : PSA
           SI- getSGPA();
           System. out. println ("Name: "+ s1. name);
           System out println ("VSN: "+ SI-usn);
       3 System out printla ("SGIPA: "+ SI-SGIPA);
Dutput:
  Enter your name: Akrama
  Enter your USN: 1BM21CSO13
  Enter marks for subject 1: 88
  Enter ma credits for subject 1: 3
                         : 94
                          : H
                          : 98
                          . 89
                          : 3
                          . 93
                         9: 75
```

Output: