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/*Develop a Java program to create a class Student with members usn, name, an
credits and an array marks. Include methods to accept and display details and a
method to
calculate SGPA of a student.
*/
import java.util.Scanner;
class Student
      private String USN;
      private String name;
      private int n;
      private double SGPA = 0;
      private int totalCredits = 0;
      Scanner ss = new Scanner(System.in);
      void Details()
      System.out.println("Enter USN of the student");
      USN = ss.nextLine();
      System.out.println("Enter Name of the student");
      name = ss.nextLine();
      System.out.println("Enter no of subjects");
      n = ss.nextInt();
      int credits[] = new int[n];
      double marks[] = new double[n];
      System.out.println("****Enter details of the subjects:****");
      for(int i=0;i<n;i++)
      {
             System.out.println("Enter credits allotted to the subject "+(i+1));
             credits[i] = ss.nextInt();
             System.out.println("Enter marks in the subject "+(i+1));
             marks[i] = ss.nextInt();
            Calculate(credits[i],marks[i],i);
      }
```

}

```
void Calculate(int credit,double mark,int j)
            totalCredits = totalCredits + credit;
            if(mark>=90&&mark<=100)
                  SGPA = SGPA + (10*credit);
            else if(mark>=80 && mark<=89)
                  SGPA = SGPA + (9*credit);
            else if(mark>=70&&mark<=79)
                  SGPA = SGPA + (8*credit);
            else if(mark>=60&&mark<=69)
                  SGPA = SGPA + (7*credit);
            else if(mark>=50 && mark<=59)
                  SGPA = SGPA + (6*credit);
            else if(mark>=40&&mark<=49)
                  SGPA = SGPA + (5*credit);
            else
                  System.out.println("Failed in Subject "+(j+1));
      }
      void Display()
      {
            System.out.println("Details of the Student");
  System.out.println("USN: "+USN);
  System.out.println("Name:"+name);
            System.out.println("SGPA of Student "+(SGPA/totalCredits));
      }
class Main
{
      public static void main(String args[])
      {
            Student s1 = new Student();
            s1.Details();
            s1.Display();
      }
}
```

```
Command Prompt
Enter no of subjects
****Enter details of the subjects:****
Enter credits allotted to the subject 1
Enter marks in the subject 1
Enter credits allotted to the subject 2
Enter marks in the subject 2
Enter credits allotted to the subject 3
Enter marks in the subject 3
22
Failed in Subject 3
Enter credits allotted to the subject 4
Enter marks in the subject 4
Enter credits allotted to the subject 5
Enter marks in the subject 5
56
Details of the Student
USN: 1BM19CS061
Name : HEMANG
SGPA of Student 6.3
D:\coding files\OOJ Lab>
```