Lab Prgm-2

Q) SGPA calculation.

Ans:
```java
import java.util.Scanner;
class Student {
    Scanner sc = new Scanner(System.in);
    String USN;
    String Name;
    int credits[] = new int[5];
    float marks[] = new float[5];
    int points[] = new int[5];
    float SGPA;
    int totalcredits = 0;

    void getDetails() {
        System.out.println("Enter USN:");
        USN = sc.nextLine();
        System.out.println("Enter Name:");
        Name = sc.nextLine();
        for(int i=0; i<5; i++)
        { System.out.println("Enter credits for subject"+(i+1)+":");
            credits[i] = sc.nextInt();
            totalcredits += credits[i];
            System.out.println("Enter marks for subject"+(i+1)+":");
            marks[i] = sc.nextFloat();
        }
    }

    void display() {
        System.out.println("Student USN:" + USN);
        System.out.println("Student Name:" + Name);
        for(int i=0; i<5; i++) {
            System.out.println("Subject"+(i+1)+"-credits:" + credits[i]
                + "-Marks:" + marks[i]); }
```

```java
System.out.println ("SGPA of " + Name + "is."
 + (float) (SGPA / total credits ));
}


void sgpa() {
 for (int i=0; i<5; i++)
   { if (marks[i] >= 90)
       { points[i] = 10; }
     else if (marks[i] >= 80)
       { points[i] = 9; }
     else if (marks[i] >= 70)
       { points[i] = 8; }
     else if (marks[i] >= 60)
       { points[i] = 7; }
     else if (marks[i] >= 50)
       { points[i] = 5; }
     else if (marks[i] >= 40)
       { points[i] = 4; }
     else
       { points[i] = 0; }
     SGPA += (points[i] * credits[i]);
   }
}
}

public class studentprg {
 public static void main (String args[]) {
   Student stud = new Student();
   stud.getDetails();
   stud.sgpa();
   stud.display();
}}
```

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