LAB PROGRAM 2

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 the SGPA of a student.

```
import java.util.*;
class Student {
       private String usn;
       private String name;
       private int credits[];
       private int marks[];
       private int n;
void accept()
{
       Scanner s=new Scanner(System.in);
       System.out.println("Enter the student details: ");
       System.out.println("USN = ");
       usn=s.next();
       System.out.println("Name = ");
       name=s.next();
       System.out.println("Enter the number of subjects: ");
       n=s.nextInt();
       credits=new int[n];
       marks=new int[n];
       System.out.println("Enter details for the subjects: ");
       for(int i=0;i< n;i++)
       {
                System.out.println("Enter credits for subject: " + (i+1));
               credits[i]=s.nextInt();
               System.out.println("Enter marks for subject: "+ (i+1));
               marks[i]=s.nextInt();
       }
}
       void display()
          System.out.println("-----");
               System.out.println("The Student's details are: ");
               System.out.println("USN: "+usn);
               System.out.println("Name: "+name);
               System.out.println("Marks in each subject :");
               for(int i=0;i< n;i++)
               {
```

```
System.out.println("Subject "+(i+1)+" = "+marks[i]);
               }
       }
       double calculate()
       {
               int tcp=0,tc=0;
               for(int i=0;i< n;i++)
       {
       tc=tc+credits[i];
       if(marks[i]>=50)
       tcp=tcp+(((marks[i]/10)+1)*credits[i]);
       else if(marks[i]>=40 && marks[i]<50)
       {
               tcp=tcp+(4*credits[i]);
       }
       }
       return (double)tcp/tc;
}
}
public class Main
       {
       public static void main(String args[]) {
               Student s1=new Student();
               s1.accept();
               s1.display();
               System.out.println("SGPA: "+s1.calculate());
               System.out.println("-----");
}
}
```

THE OUTPUT:

```
C:\Users\yr\sh\pcd desktop

C:
```

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