OOJ LAB-4

DI BATCH

VAKAHALLA
KEERTHI
PRIYA
1BH19CS176

16/10/20

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.

```java
import java.util.*;

class student {
        String name;
        String USN;
        int marks[] = new int[5];
        int credits[] = new int[5];
        int tot = 0;
        int i;
        int grade = 0;
        void read_data()
        {
        Scanner obj = new Scanner(System.in);
        System.out.println("Enter the name of the student");
        name = obj.next();
        System.out.println("Enter the USN");
        USN = obj.next();
```

```java
System.out.println("Enter the credits and marks
                    for 5 subjects");
for(i=0; i<5; i++)
{
System.out.println("credits for subject"+(i+1)+":");
credits[i] = obj.nextInt();
System.out.println("Marks for subject"+(i+1)+":");
marks[i] = obj.nextInt();
}
}
void calc_SGPA()
{
  for(i=0; i<5; i++)
{
if(marks[i]>=90 && marks[i]<=100)
  grade=10;
elseif(marks[i]>=75 && marks[i]<90)
grade=9;
elseif(marks[i]>=60 && marks[i]<75)
grade=8;
else if(marks[i]>=50 && marks[i]<60)
grade=7;
else if(marks[i]>=45 && marks[i]<50)
  grade=6;
else if(marks[i]>=40 && marks[i]<45)
  grade=5;
```

```java
        else if (marks[i]<40)
            grade = 0;

    tot = tot + grade * credit[i];
    }

    tot = tot/20;
    System.out.println("SGPA:"+tot);
    }

    void details ()
    {
    System.out.println("Name:"+name);
    System.out.println("USN:"+usn);
    System.out.println("Marks and credit
                    for all 5 subjects:");
    for (i=0; i<5, i++)
    {
    System.out.println(marks[i]);
    System.out.println(credit[i]);
    }
    calc_SGPA();
    }
Public static void main(String args[])
{
    student obj = new student();
    Obj.read_data();
    Obj.calc_SGPA();
    obj.details();
}}
```