LAB2 1BM19CS009 AJITH KUMAR G 10/6/2020

```
import java.util.Scanner;
class student {
    private int n;
    private int credits[];
    private string name,usn;
    private double marks[];
     Scanner get=new Scanner(System.in);
    student()
    {
        System.out.printf("\n Enter The Number of Courses:
        n=get.nextInt();
        marks=new double[n];
        credits =new int[n];
    }

    void getinfo()
    {
        System.out.printf("\n Enter the USN and Name:");
        usn=get.next();
        name=get.next();
        System.out.printf("\nEnter the marks(out of 100)
                and credits :");
        for(int i=0;i<n;i++)
        {
            system.out.printf("\nCourse %d:", i+1);
            marks[i]=get.nextDouble();
            credits[i]=get.nextInt();
        }
}
```

```
int gpCal(double num)
{
    if (num >=50)
    return (int)(Math.ceil(num/10));

    else
     if (num >=40)
     return 4;

     else
      return 0;

 }

double calculation()
{
     double sgpaSum =0, sgpa =0, creditsum = 0;
     for (int i=0 ; i<n;i++)
     {
          sgpaSum+= gpCal(marks[i])* credits[i];
           creditSum += credits[i];

      }
     System.out.println("\n\n credit sum = " + creditsum);
      sgpa = sgpaSum /creditsum;
      return sgpa;

     }

void details()
{
    System.out.println("\n The student Details Are : ");
    System.out.println("\n USN : " + usn + "\n Name : " +name);
     System.out.printf("\n\t");
     for (int i=0 ; i<n ;i++)
     systemout.printf(" course -%d    ", i+1);
     system.out.printf("\nMarks :    ");
     for (int i=0;i<n ;i++)
     {
```

```
        System.out.printf("%0.2f      ",marks[i]);
    }

    System.out.printf("\n Credits      ");
    for(int  i=0 ; i<n;i++)
    {
        System.out.printf("%d \t\t", credits[i]);
    }
  }
}

class  Lab2Student
{
    public  static  void  main(String[] args)
    {
        double  sgpa=0;
        Student s1=new  Student();
        s1.getinfo();
        s1.details();
        sgpa =s1.calculation();
        System.out.printf("\n The SGPA of the
            student  is :  %0.2f /10.00 ", sgpa);
    }
}
```