16/10/2020

LAB program 2

```java
import java.util.Scanner;
class Student {
    String USN;
    String name;
    int credits[0] = new int[10];
    int marks[5] = new int[10];

void accept()
{
    int i;
    Scanner myobj=new Scanner(System.in);
    System.out.println("Enter the usn of student");
    USN=myobj.nextLine();
    System.out.println("Enter name");
    name = myobj.nextLine();
    System.out.println("Enter the credits and marks");
    for(i=0; i<5; i++)                    // for 5 subjects
    {
        System.out.println("Enter the credits for Subject"
        credits[i]=myobj.nextInt();
        System.out.println("Enter the marks of subject"+
                            (i+1) + ":");
        marks[i]=myobj.nextint();
    }
}

void display()
{
    System.out.println("USN:"+USN);
    System.out.println("Name:"+Name);
    for(int i=0; i<5; i++)
    {
        System.out.println("credits of subject"+(i+1)+":"+credi
```

```java
System.out.println("marks of subject"+(i+1)+ ":"+marks[i]);
      }
   }

double calc_sgpa()
   {
      int grade_points[] = new int[10], i;
      for(i=0; i<5; i++)
      {  if (marks[i] >=90)
            grade_points[i] =10;
         if (marks[i] >=80 && marks[i]<90)
            grade_points[i] =9;
         if (marks[i]>= 70 && marks[i] <80)
            grade_points[i] =8;
         if (marks[i] >=60 && marks[i]<70)
            grade_points[i] =7;
         if (marks[i] >= 50 && marks[i] < 60)
            grade_points[i] =6;
         if (marks[i] >=40    && marks[i] < 50)
            grade_points[i] =4;
         if (marks[i] >= 0    && marks[i]<40)
            grade_points[i] =0;
      }
      double numerator =0, sum_credits =0,sgpa;
      for (i=0; i<5 ; i++)
      {  numerator +=grade_points[i] * credits[i];
         sum_credits += credits[i];
      }

         sgpa = numerator/sum_credits;
         return sgpa;
      }
   }

class Student_program {
   public static void main (String [] args){
      double SGPA;
      Student s = new student();
      s.accept();
      s.display();    SGPA =calc_sgpa();
System.out.println("SGPA is :" + SGPA);  } }
```