LAB:2

SGPA

```java
import java.util.*;
class Student
{

    private int n, credit [], marks[], gp[];
    private string name, usn;
    double sum, sgpa;

    Student()
    {
        name = " ";
        usn = 0;
    }

    void accept()
    {
        Scanner sc=new Scanner(system.in);
        System.out.println("enter the no. of subjects:");
        n= sc.next Int();
        credit = new int[n+i];
        marks = new int [n+i];
        System.out.println("enter usn & name of student").
        usn= sc.next();
        name = sc.next();
        System.out.println("enter credit & mals in each subject");
        for (int=1; i<n; i++)
        {
            system.out.println("enter subject "+i+"credit & marks");
            credit [i]= sc.next Int();
            mals[i]= sc.next Int();
```

```java
    }
}
void calculate()
{
    gp = new int [n+1];
    int cre = 0
    for (int i=1; i<=n; i++)
    {
    if (mals[i] >= 90)
        gp[i] = 10;
    else if (mals[i] >= 80 && mals[i] < 90)
        gp[i] = 9;
    else if (mals[i] >= 70 && mals[i] < 80)
        gp[i] = 8;
    else if (mals[i] >= 60 && mals[i] < 70)
        gp[i] = 7;
    else if (mals[i] >= 50 && mals[i] < 60)
        gp[i] = 5;
    else if (mals[i] < 40)
        gp[i] = 0;
    sum = (double)(credit[i]*gp[i]+sum);
    cre = cre + credit[i];
    }
    sgpa = sum/cre;
}
void display()
{
    System.out.println("roll" + rollt name + name);
    for (int i=1; i<=n; i++)
    System.out.println("mals in mals[i]+" grad poit= "+ gp[i]);
    System.out.println("sgpa"+sgpa);
    }
```

```
class student main
{
    public static void main(String[] args)
    {
        student s1 = new student();
        s1.accept()
        s1.calculate()
        s1.display()
    }
}
```