

```

1) package com.company;
import java.util.*;
class studentMarks
{
    Scanner sc= new Scanner(System.in);
    float[] credit=new float[5];
    float[]marks=new float[5];
    float[]sgpaps=new float[5];
    float sum=0,c;
    int usn;
    float sgpa;
    String name;
    void setdata()
    {

        System.out.println("Enter the name of the student");
        name=sc.nextLine();
        System.out.println("\nEnter the USN of the student");
        usn=sc.nextInt();
        System.out.println("\nEnter the marks obtained by the student in each of
the five subjects");
        for(int i=0;i<5;i++)
        {
            marks[i]=sc.nextFloat();
            if(marks[i]>=90 && marks[i]<=100)
            {
                sgpaps[i]=10;
            }
            else if(marks[i]>=80 && marks[i]<90)
            {
                sgpaps[i]=9;
            }
            else if(marks[i]>=70 && marks[i]<80)
            {
                sgpaps[i]=8;
            }
            else if(marks[i]>=60 && marks[i]<70)
            {
                sgpaps[i]=7;
            }
            else if(marks[i]>=50 && marks[i]<60)
            {
                sgpaps[i]=6;
            }
            else if(marks[i]>=40 && marks[i]<50)
            {
                sgpaps[i]=5;
            }
            else
                sgpaps[i]=0;
        }
        System.out.println("\nEnter the credits of each subject");
        for(int i=0;i<5;i++)
        {
            credit[i]=sc.nextFloat();
        }

    }
    float calsgpa()
    {
        for(int i=0;i<5;i++)
        {
            sum=sum+(sgpaps[i]*credit[i]);
        }
        for(int i=0;i<5;i++)

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        {
            c=c+credit[i]*1;
        }
        sgpa=sum/c;
        return sgpa;
    }
    void getata()
    {
        System.out.println("\nDetails of the Student:\n");
        System.out.println("Name: "+name);
        System.out.println("\nU.S.N: "+usn);
        for(int i=0;i<5;i++)
        {
            System.out.println(marks[i]+" ");
        }

    }

}
}
class student
{

    public static void main(String args[])
    {
        Scanner a= new Scanner(System.in);
        studentMarks[] st ;
        st=new studentMarks[5];

        System.out.println("\nEnter the number of students: ");
        int n=a.nextInt();
        for(int i=0;i<n;i++)
        {
            st[i] = new studentMarks();
            System.out.println("Enter the data of student"+(i+1));
            st[i].setdata();
            st[i].getata();
            float c=st[i].calsgpa();
            System.out.println("\nS.G.P.A of the Student is: "+c);
        }

    }

}
}

```

OUTPUT:

Enter the number of students:

2

Enter the data of student1

Enter the name of the student

Abhi

Enter the USN of the student

1

Enter the marks obtained by the student in each of the five subjects

99

96

95

94

91

Enter the credits of each subject

5

5

5

4

4

Details of the Student:

Name: Abhi

U.S.N: 1

99.0

96.0

95.0

94.0

91.0

S.G.P.A of the Student is: 10.0

Enter the data of student2

Enter the name of the student

Amit

Enter the USN of the student

2

Enter the marks obtained by the student in each of the five subjects

85

96

95

97

91

Enter the credits of each subject

5

5

5

4

4

Details of the Student:

Name: Amit

U.S.N: 2

85.0

96.0

95.0

97.0

91.0

S.G.P.A of the Student is: 9.782609

Process finished with exit code 0