

```
import java.util.*;
class student
{
    public static void main(String args[])
    {
        int total = 0;
        int n;
        double sgpa = 0, tc = 0, tmc = 0;
        int credits;
        String name, usn;
        int marks[] = new int[5];
        int credit[] = new int[5];
        double a[] = new double[5];
        int i;
        Scanner ss = new Scanner(System.in);
        System.out.println("Enter student name");
        name = ss.next();
        System.out.println("enter usn");
        usn = ss.next();
        System.out.println("enter total subjects");
        n = ss.nextInt();
        for(i = 0; i < n; i++)
        {
            System.out.println("Enter marks and credit of subject " + (i+1) + " : ");
            marks[i] = ss.nextInt();
            credit[i] = ss.nextInt();
        }
    }
}
```

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for (i=0; i<5; i++) {
    if (marks[i] >= 90)
        a[i] = 10.0;
    else if ((marks[i] >= 80) && (marks[i] < 90))
        a[i] = 9.0;
    else if ((marks[i] >= 70) && (marks[i] < 80))
        a[i] = 8.0;
    else if ((marks[i] >= 60) && (marks[i] < 70))
        a[i] = 7.0;
    else if ((marks[i] >= 50) && (marks[i] < 60))
        a[i] = 6.0;
    else if ((marks[i] >= 40) && (marks[i] < 50))
        a[i] = 5.0;
    else
        a[i] = 0.0;
}

for (i=0; i<n; i++) {
    tc = tc + credit[i];
    tmc = tmc + (credit[i] * a[i]);
    sgpa = (tmc / tc);
    System.out.println(" sgpa=" + sgpa);
}
}

```

Teacher's Signature : \_\_\_\_\_