

```

import java.util.*;
class student
{
    public static void main(String args[])
    {
        int total = 0;
        int n;
        double sgpa = 0, tc = 0, tmc = 0;
        int credit;
        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();
        }
    }
}

```

```
for (i=0; i<5; i++) {
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```
    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))
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```
        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);
```

```
}
```

```
}
```