

LAB-2

SGPA Calculation

```
import java.util.*;
```

```
class Student
```

```
{
```

```
    int usn, sum = 0, c = 0;
```

```
    float sgp;
```

```
    String name;
```

```
    int credits[] = new int[10];
```

```
    int marks[] = new int[10];
```

```
    int grade[] = new int[10];
```

```
    void accept()
```

```
{
```

```
    Scanner sc = new Scanner(System.in);
```

```
    System.out.println("Enter USN");
```

```
    usn = sc.nextInt();
```

```
    System.out.println("Enter Name");
```

```
    name = sc.next();
```

```
    System.out.println("Enter credits");
```

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

```
    credits[i] = sc.nextInt();
```

```
}
```

```
System.out.println("Enter marks ");
```

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

```
    marks[i] = sc.nextInt();
```

```
}
```

```
}
```

```
void calculate()
```

```
{
```

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

```
        if (marks[i] >= 90)
```

```
            grade[i] = 10;
```

```
        else if (marks[i] >= 80 && marks[i] < 90)
```

```
            grade[i] = 9;
```

```
        else if (marks[i] >= 70 && marks[i] < 80)
```

```
            grade[i] = 8;
```

```
        else if (marks[i] >= 60 && marks[i] < 70)
```

```
            grade[i] = 7;
```

```

else if (marks[i] >= 50 && marks[i] < 60)
    grade[i] = 6;
else if (marks[i] >= 40 && marks[i] < 50)
    grade[i] = 5;
else if (marks[i] >= 30 && marks[i] < 40)
    grade[i] = 4;
else
    grade[i] = 0;
} for (int i=0; i<5; i++)
{

```

```

    sum = sum + credits[i] * grade[i];
}

```

```

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

```

```

    c = c + grade[i];
}

```

```

    sgp = sum / c;
}

```

```

void print()
{

```

```

    System.out.println("USN" + vsn + "\n" + "name"
        + "name");
}

```

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

```
    System.out.println("marks[i] + " + " ");  
}
```

```
    System.out.println("The SGPA is = " + sgpa);  
}
```

```
}
```

```
public class Main  
{
```

```
    public static void main (String args[])  
    {
```

```
        Student s1 = new Student();
```

```
        s1.accept();
```

```
        s1.calculate();
```

```
        s1.print();
```

```
    }
```

```
}
```