

## Lab Program - 2

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

```
    private String USN;  
    private String name;  
    private int n;  
    private double SGPA = 0;  
    private int totalCredits = 0;  
    Scanner ss = new Scanner(System.in);  
    void Details()  
    {
```

```
        System.out.println("Enter USN of the Student");  
        USN = ss.nextLine();
```

```
        System.out.println("Enter Name of the Student");  
        name = ss.nextLine();
```

```
        System.out.println("Enter number of subjects");  
        n = ss.nextInt();
```

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

```
        double marks[] = new double[n];
```

```
        System.out.println("Enter details of the  
                           subjects:");
```

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

```
            System.out.println("Enter credits allotted  
                               to the subject " + (i+1));
```

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

```
            System.out.println("Enter marks in the  
                               subject " + (i+1));
```

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

```
        Calculate(credits[i], mark[i], i);
    }
}

void Calculate(int credit, double mark, int j)
{
    totalCredits = totalCredits + credit;
    if (mark >= 90 && mark <= 100)
        SGPA = SGPA + (10 * credit);
    else if (mark >= 80 && mark <= 89)
        SGPA = SGPA + (9 * credit);
    else if (mark >= 70 && mark <= 79)
        SGPA = SGPA + (8 * credit);
    else if (mark >= 60 && mark <= 69)
        SGPA = SGPA + (7 * credit);
    else if (mark >= 50 && mark <= 59)
        SGPA = SGPA + (6 * credit);
    else if (mark >= 40 && mark <= 49)
        SGPA = SGPA + (5 * credit);
    else
        System.out.println("Failed in subject " +
                             (j+1));
}

void Display()
{
    System.out.println("Details of the Student");
    System.out.println("Name: " + name);
    System.out.println("USN: " + USN);
    System.out.println("SGPA of Student " +
                        +(SGPA/totalCredits));
}
}
```



```
class Main  
{
```

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

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

```
        s1.Details();
```

```
        s1.Display();
```

```
    }
```

```
}
```