

5  
1). Lab Program:

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

```
class Student
```

```
{
```

```
    private String USN; int credits[];
```

```
    private String name; double marks[]
```

```
    private int n;
```

```
    private double GP = 0;
```

```
    private int totCredits = 0;
```

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

```
    void Details()
```

```
{
```

```
        System.out.println("Enter the USN of the student");
```

```
        USN = in.nextLine();
```

```
        System.out.println("Enter the name of the student");
```

```
        name = in.nextLine();
```

```
        System.out.println("Enter the no of subjects");
```

```
        n = in.nextInt();
```

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

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

```
System.out.println("Enter the details of the subject");  
for (int i=0; i<n; i++)
```

q

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

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

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

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

```
Calculate(credits[i], marks[i]);
```

q

j

```
void Calculate (int credit, double mark)
```

q

```
totCredits = totCredits + credit;
```

```
if (mark >= 90 && mark <= 100)
```

```
GP += (10 * credit);
```

```
else if (mark >= 80 && mark <= 89)
```

```
GP += (9 * credit);
```

```
else if (mark >= 70 && mark <= 79)
```

```
GP += (8 * credit);
```

```
else if (mark >= 60 && mark <= 69)
```

```
GP += (7 * credit);
```

```
else if (mark >= 50 && credit <= 59)
```

```
GP += (6 * credit);
```



```
else if (mark >= 40 && mark <= 49)
    GP = GP (5 * credit);
```

ake

```
GP = GP;
```

```
}
```

```
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 : " +
        (GP / totCredits));
```

```
}
```

```
{
```

```
class StudentMain
```

```
{
```

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

```
{
```

```
        Student st = new Student();
        st.Details();
```

```
        st.Display();
```

```
}
```

```
}
```