LAB - 2

```java
import java.util.Scanner;
class subject
{
    int marks;
    int credits;
    int grade;
}
class Student
{
    Subject sub[];
    String name;
    String usn;
    Scanner s;

    Student()
    {
        int i;
        sub = new Subject [8];
        for(i=0; i<8; i++)
            sub[i] = new Subject();
        s = new Scanner(System.in);
    }

    void getDetails()
    {
        System.out.println("Enter student name:");
        name = s.nextLine();
        System.out.println("Enter student usn:");
        usn = s.nextLine();
    }
```

```java
void getMarks()
{
    int i;
    for (i=0 ; i<8 ; i++)
    {
        System.out.println("Enter marks :");
        Sub[i].marks = s.nextInt();
        System.out.println("Enter credit :");
        sub[i].credits = s.nextInt();
        if (sub[i].marks < 40)
            sub[i].grade = 0;
        else if (sub[i].marks >=40 && sub[i].
                marks < 60)
            sub[i].grade = 6;
        else if (sub[i].marks >= 70 && sub[i].
                marks < 80)
            sub[i].grade = 7;
        else if (sub[i].marks >= 80 && sub[i].
                marks < 90)
            sub[i].grade = 9;
        else if (sub[i].marks >= 90 &&
                    sub[i].marks =<100)
            sub[i].grade = 10;
        else
            sub[i].grade = 0;
    }
}


double computeSGPA()
{
    int i;
    int n-sum =0, d-sum=0;
```

```java
        int numerator;
        for (i=0 ; i < 8 ; i++)
        {
                numerator = sub[i].credits * sub[i].
                                                grade;
                n-sum = n-sum + numerator;
                d-sum = d-sum + sub[i].credits;
        }
        SGPA = n-sum / d-sum;
        return (SGPA);
    }
}

class mainClass
{
    public static void main (String args[])
    {
        Student s1 = new Student();
        s1.getDetails();
        s1.getMarks();
        System.out.println("SGPA = " + s1.compute
                                        SGPA());
    }
}
```

OUTPUT :

Enter student name:
Ranjan
Enter student usn:
1BM22CS219
Enter marks:
95
Enter credits:
4
Enter marks:
93
Enter credits:
4
Enter marks:
88
Enter credits:
3
Enter marks:
92
Enter credits:
3
Enter marks:
91
Enter credits:
3
Enter marks:
90
Enter credits:
1
Enter marks:
92

Enter credits:
1

Enter marks:
94

Enter credits:
1

SGPA = 9.8