

Week-11 (Lab program-2)

```
import java.util.Scanner;
class Student
{
    private String usn, name;
    private int n, i, gpa, sum, credits_sum;
    private float sgpa;
    int credits[]; new int[n];
    double marks[]; new double[n];
    Student()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of subjects");
        n = sc.nextInt();
        sum = 0;
        credits_sum = 0;
        credits = new int[n];
        marks = new double[n];
    }
    void accept()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter usn and name");
        usn = sc.next();
        name = sc.next();
        for (i = 0; i < n; i++)
        {
            System.out.println("Enter " + (i+1) + " subject's marks and credits");
            marks[i] = sc.nextDouble();
            credits[i] = sc.nextInt();
        }
    }
}
```

void cal()

{

for (i=0; i<n; i++)

{

if (marks[i] == 100)

gradpts = 10;

else if (marks[i] >= 60 && marks[i] < 100)

gradpts = (int)(marks[i]/10) + 1;

else if (marks[i] >= 40 && marks[i] < 60)

gradpts = (int)(marks[i]/10);

else if (marks[i] < 40)

gradpts = 0;

sum = sum + (gradpts * credits[i]);

}

for (i=0; i<n; i++)

{

credits_sum = credits_sum + credits[i];

}

sgpa = (float) sum / credits_sum;

}

void display()

{

System.out.println("Student details:");

System.out.println("Name: " + name);

System.out.println("USN: " + usn);

System.out.println("SGPA: %.2f", sgpa);

}

}

class StudentMain

{

public static void main(String args[])

{

Student s = new Student();

s.accept();

s.cal();

s.display();

}