LAB 2

PROGRAM TO DISPLAY DETAILS OF A STUDENT

- HANDWRITTEN PROGRAM

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

    string usn, name;
    int n, credits[], totalCredits = 0;
    double marks[], SGPA = 0;
    Scanner in = new Scanner(System.in);
    void Details()
    {

        System.out.println("Enter usn - ");
        usn = in.nextLine();
        System.out.println("Enter student name - ");
        name = in.nextLine();
        System.out.println("Enter no.of subjects - ");
        n = in.nextInt();
        credits = new int[n];
        marks = new double[n];
        for(int i = 0; i < n; i++)
        {
            System.out.println("Subject " + (i+1));
            System.out.println("Enter allotted credits - ");
            credits[i] = in.nextInt();
            System.out.println("Enter marks - ");
            marks[i] = in.nextDouble();
            Calculate(credits[i], marks[i], i);
        }
    }

    void Calculate(int credit, double mark, int j)
    {

        totalCredits += credit;
        if(mark >= 90 && mark <= 100)
        {

            SGPA += (10 * credit);
        }
```

```java
        else if (mark >=80 && mark <=89)
        {
                SGPA += (9 * credit);
        }
        else if (mark >=70 && mark <=79)
        {
                SGPA += (8 * credit);
        }
        else if (mark >=60 && mark <=69)
        {
                SGPA += (7 * credit);
        }
        else if (mark >=50 && mark <=59)
        {
                SGPA += (6 * credit);
        }
        else if (mark >=40 && mark <= 49)
        {
                SGPA += (5 * credit);
        }
        else
        {
                System.out.println("failed in subject " + (j+1));
        }
    }

    void Display()
    {
        System.out.println("Details of the student - ");
        System.out.println("usn : " + usn);
        System.out.println("name : " + name);
        System.out.println("SGPA : " + (SGPA / totalCredits));
    }
}

class Stu_Info
{
    public static void main (String args[])
    {
        Student stu = new Student();
        stu.Details();
        stu.Display();
    }
}
```

- PROGRAM

```java
import java.util.Scanner;
class Student
{
        private String USN,name;
        private int n,credits[],totalCredits = 0;
        private double marks[],SGPA = 0;
        Scanner in= new Scanner(System.in);

        void Details()
    {
        System.out.println("Enter the usn-");
        USN = in.nextLine();
        System.out.println("Enter the student name- ");
        name = in.nextLine();
        System.out.println("Enter the no of subjects- ");
        n = in.nextInt();
        credits = new int[n];
        marks = new double[n];
        for(int i=0;i<n;i++)
        {
                System.out.println("Subject "+(i+1));
                System.out.println("Enter allotted credits- ");
                credits[i] = in.nextInt();
                System.out.println("Enter marks- ");
                marks[i] = in.nextDouble();
                Calculate(credits[i],marks[i],i);
        }
    }
    void Calculate(int credit,double mark,int j)
    {
                totalCredits+=credit;
                if(mark>=90&&mark<=100)
                {
                    SGPA+=(10*credit);
                }
                else if(mark>=80 && mark<=89)
                {
                    SGPA+=(9*credit);
                }
                else if(mark>=70&&mark<=79)
                {
                    SGPA+=(8*credit);
                }
                else if(mark>=60&&mark<=69)
                {
                    SGPA+=(7*credit);
                }
                else if(mark>=50 && mark<=59)
                {
                    SGPA+=(6*credit);
                }
                else if(mark>=40&&mark<=49)
                {
                    SGPA+=(5*credit);
                }
                else
                {
                    System.out.println("Failed in Subject "+(j+1));
                }
    }
        void Display()
        {
                System.out.println("Details of the Student-");
                System.out.println("USN: "+USN);
                System.out.println("Name: "+name);
                System.out.println("SGPA: "+(SGPA/totalCredits));
        }
}
class Stu_Info
{
        public static void main(String args[])
        {
                Student stu = new Student();
                stu.Details();
                stu.Display();
        }
}
```

- OUTPUT

```
C:\bms\sem3\labs\java>javac Stu_Info.java

C:\bms\sem3\labs\java>java Stu_Info
Enter the usn-
1cs112
Enter the student name-
priya
Enter the no of subjects-
2
Subject 1
Enter allotted credits-
3
Enter marks-
99
Subject 2
Enter allotted credits-
2
Enter marks-
87
Details of the Student-
USN: 1cs112
Name: priya
SGPA: 9.6
```