

LAB PROGRAM--2

```
import java.util.*;

class Student {

    private String usn;

    private String name;

    private int cred[];

    private int marks[];

    private int n;

    void accept()

    {

        Scanner s=new Scanner(System.in);

        System.out.println("Enter student details");

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

        usn=s.next();

        System.out.println("Name of student:");

        name=s.next();

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

        n=s.nextInt();

        cred=new int[n];

        marks=new int[n];

        System.out.println("Enter credits and marks attained by the student in each subject(out of
100)");

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

        {

            cred[i]=s.nextInt();

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

```

    }
}

void display()
{
    System.out.println("Student details:");

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

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

    System.out.println("Marks in each subject:");

    for(int i=0;i<n;i++)
    {
        System.out.println("Subject "+(i+1)+": "+marks[i]);
    }
}

double calculate()
{
    int tcp=0,tc=0;

    for(int i=0;i<n;i++)
    {
        tc=tc+cred[i];

        if(marks[i]>=50)
        {
            tcp=tcp+(((marks[i]/10)+1)*cred[i]);
        }

        else if(marks[i]>=40 && marks[i]<50)
        {
            tcp=tcp+(4*cred[i]);
        }
    }
}

```

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        }

        return (double)tcp/tc;

    }

}

class Main

{

    public static void main(String ss[]) {

        Student s1=new Student();

        s1.accept();

        s1.display();

        System.out.println("SGPA: "+s1.calculate());

    }

}
```

```
Enter student details
USN of the student:
1BM19CS079
Name of student:
RIYA
Enter the number of subjects:
5
Enter credits and marks attained by the student in each subject(out of 100)
5
92
4
84
4
89
4
78
3
65
Student details:
USN:1BM19CS079
Name:RIYA
Marks in each subject:
Subject 1:92
Subject 2:84
Subject 3:89
Subject 4:78
Subject 5:65
SGPA: 8.75
```