

2. Develop a Java Program to create a class Student with member Usn, name, an array credit and array mark include method to accept and display detail and a method to calculate sum of a student.

```
import java.util.Scanner;

class Student {
    String Usn;
    String name;
    int[] credit;
    int[] mark;
    int numsubject;

    void acceptDetail()
    {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter Usn:");
        Usn = scanner.nextLine();
        System.out.print("Enter name:");
        name = scanner.nextLine();
        System.out.print("Enter number of subject:");
        numsubject = scanner.nextInt();

        credit = new int[numsubject];
        mark = new int[numsubject];

        for (int i = 0; i < numsubject; i++)
        {
            System.out.print("Enter credit for subject " +
                               (i+1) + " :");
            credit[i] = scanner.nextInt();
            System.out.print("Enter mark for subject " +
                               (i+1) + " :");
            mark[i] = scanner.nextInt();
        }
    }

    void displayDetail()
    {
        System.out.print("Usn: " + Usn);
        System.out.print("name: " + name);
    }
}
```



```

System.out.print("Subject details:");
for (int i=0; i<numsubject; i++)
{
    System.out.print("subject " + (i+1) + ": credit=" +
        credit[i] + " , mark=" + mark[i]);
}
}

```

```

double calculateSCPA()
{
    int totalcredit=0;
    double totalcreditpoint=0.0;
    for (int i=0; i<numsubject; i++)
    {
        int gradepoint = getGradePoint (mark[i]);
        totalcreditpoint = credit[i]* gradepoint;
        totalcredit += credit[i];
    }
    return totalcreditpoint / totalcredit;
}

```

```

int getGradePoint (int mark)
{
    if (mark >= 90) return 10;
    else if (mark >= 80) return 9;
    else if (mark >= 70) return 8;
    else if (mark >= 60) return 7;
    else if (mark >= 50) return 6;
    else if (mark >= 40) return 5;
    else return 0;
}

```

```

public static void main (String [] args)
{
    student student = new student();
    student.acceptdetail();
    student.displaydetail();
}

```



```
double sgpa = student.calculateSGPA();  
System.out.print ("SGPA:" + sgpa);
```

}

}

O/P

Enter number of subjects: 2

Student name: umesh

USN: 24BECS424

Enter max credit:

Sub 1: 4

Sub 2: 4

Enter marks for each subject;

marks sub 1: 75

marks sub 2: 62

marks for sub 3: 79

~~sub~~

Student details:

name: uday

USN: 24BEG5402

SGPA: 7.66