② Develop a java program to create a class student
with members USN, name, an array credits &
an array members. Include methods to accept,
display details & a method to calculate SGPA.

```java
import java.util.Scanner;
class student {
    String USN, name
    int credits [], marks [], gradepoints [], n,
        num = 0, deno = 0;
    double sgpa;
    void accept()
    {
        Scanner s = new Scanner (System.in);
        System.out.println ("Enter student name, USN)
        name = s.next ();
        USN = s.next();
        System.out.println (" Enter no of subjects");
        n = s.next Int ();
        for (i=0; i<n; i++)
        {
        System.out.println ("Enter subject" +(i+1) + "marks)
            marks [i]= s.next Int ();
        System.out.println ( "Enter subject"+(i+1)+"credits)
            credits [i] = s.next Int ();
            deno += credits [i];  }  }
    void calculate ()
    {
        for (i=0; i<n; i++)
        {
            if (marks [i] >= 90)
                gradepoint [i] = 10;
```

```java
        elseif (marks[i] >= 80 && marks[i] < 90)
            gradepoints[i] = 9;
        elseif (marks[i] >= 70 && marks[i] < 80)
            gradepoints[i] = 8;
        elseif (marks[i] >= 80 && marks[i] < 70)
            gradepoints[i] = 7;
        elseif (marks[i] >= 70 && marks[i] < 60)
            gradepoints[i] = 6;
        elseif (marks[i] >= 40 && marks[i] < 50)
            gradepoints[i] = 4;
        else
            gradepoints[i] = 0;
            num += credits[i] * gradepoints[i];
    }
    
    sgpa = num / den;
}

void display()
{
    System.out.println("Student_details");
    System.out.println("name "+name+ "\n"
                       + "USN" :+USN);
    System.out.println("marks + grade");
    for (i = 0; i < n; i++);
    {
    System.out.println(marks[i] + "\t" + grade[i]);
        System.out.println();
    }

    System.out.println("SGPA" +sgpa); }
class studentdemo
{
            public static void main(String args[])
{
        Student s = new student();
            s.accept();
        s.calculate();
        s.display();
```

```
1:Input 2:Display          3:Calculate        4:Exit
3
SGPA is= 5.466666666666667

1:Input 2:Display          3:Calculate        4:Exit
1
Enter USN and name
1bm21cs007
aditya
Enter the number of subjects:
2
Enter credits of 2subjects:
2
3
Enter marks for the 2subjects:
66
77

1:Input 2:Display          3:Calculate        4:Exit
3
SGPA is= 7.6

1:Input 2:Display          3:Calculate        4:Exit
```