Lab - 2

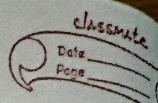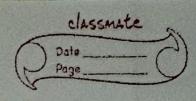**Q]** Develop a java program to create a class Student with members USN, name, an array credits and an array Marks. Include methods to display details and a method to calculate SGPA of a student.

```java
import java.util.Scanner;
class Student {
string usn;
string name;
int[] credits;
int[] marks;
void acceptDetails ()
{
    Scanner mark = new Scanner (System.in);
    Scanner (System.in);
    System.out
    System.out.println("Enter USN:");
    usn = mark.nextLine();
    System.out.println("Enter Name:");
    name = mark.nextLine();
    System.out.println("Enter number of subjects:");
    int n = mark.nextInt();
    credits = new int[n];
```
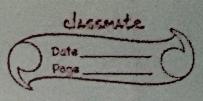
```java
marks = new int[n];
for (int i = 0; i < credits.length; i++)
{
    System.out.println("Enter credits and marks");
    credits[i] = mark.nextInb();
    marks[i] = mark.nextInt();
}
}

void calculateSgpa()
{
    int c = 0;
    int m = 0;
    for (int i = 0; i < credits.length; i++)
    {
        c += credits[i];
        m += marks[i];
    }
    System.out.println("Total credits:" + c);
    System.out.println("Total marks:" + m);
    double s = 0;
    for (int i = 0; i < credits.length; i++) {
        s += (marks[i]/10 * credits[i]);
    }

    double sgpa = s/c;
    System.out.println("SGPA:" + sgpa);
```

```java
}

void display(){
    System.out.println("USN: " +usn);
    System.out.println("Name:" +name);
    for(int i =0; i< credits.length; i++){
        System.out.println("Credits for subject "+(i+1)
                        + "is:" + credits[i]);
        S.O.P("Marks for subject" +(i+1)+
                        "is:" + marks[i] + "\n");
    }
}
}


public static void main (String[] Args)
{

    SOP(" Name: Aparna Sankar  USN: IBM23CS04Y");
    int a, i;
    Scanner object=new Scanner(System.in);
    System.out.println(" Enter no. of students:");
    a = object.nextInt();
    for(i=0; i<a; i++){
        Student obj =new student();
        obj.acceptdetails();
        obj.calculate sgpa();
        obj.display();
    }
}
```

Output

Enter number of students:

1

Enter USN:

1BM23CS047

Enter name:

Aparna

Enter number of subjects:

2

Enter credits and marks:

4 56

Enter credits and marks:

3 76

Total credits: 7

Total marks: 132

SGPA : 5.8571428857...