```java
import java.util.Scanner;
class Student {
private String USN;
private String name;
private int sem;

void getStudentdata()
{
    Scanner xx = new Scanner(System.in);
    System.out.print("Enter the USN of the student:");
    USN = xx.next();
    xx.nextLine();
    System.out.print("Enter the name of the student:");
    name = xx.next();
    xx.nextLine();
    System.out.println("Enter the semester of the student:");
    sem = xx.nextInt()
}

void printstudentdata()
{
    System.out.println("The name of the student is:"+name);
    System.out.println("The USN of the student is:"+USN);
    System.out.println("The Semester of tech student:"
                                        +sem);
}
}

class Test extends Student {
private int cie[];
private int credits[];
```

```java
    private int n;

    void setsize (int m)
    {
        n = m;
        cie = new int [n];
        credits = new int [n];
    }

    void get ciemarks()
    {
        Scanner xx = new Scanner (System.in);
        System.out.println ("Enter the credits and cie
            marks of each subject:");
        int i;
        for (i=0; i<n; i++)
        {
            System.out.println ("Enter the credits and
                marks of " + (i+1) + " subject:");
            credits [i] = xx.nextInt();
            cie [i] = xx.nextInt();
        }
    }

    int returnciemarks (int i)
    {
        return cie [i];
    }

    int return_credits (int i)
    {
        return credits [i];
    }
}
```

```java
class Exams extends Test {
    private int see[];
    private int n1;

    void setsize1 (int m)
    {
        n1 = m;
        see = new int [n1];
    }

    void getseemarks ()
    {
        Scanner xx = new Scanner (System.in);
        System.out.println (" Enter the see marks of
                                        each subject :");
        int i;
        for (i=0; i<n1; i++)
        {
            System.out.println (" Enter the see marks of
            "+i+" subject :");

            see[i] = xx.nextInt ();
        }
    }

        int returnseemarks (int i)
        {
            return see[i];
        }
}
```

```java
class Result extends Exams {
    private double result;
    private int n;

    Result()
    {
        Scanner xx = new Scanner(System.in);
        getstudentdata();
        System.out.println("Enter the no of subject:");
        int i = xx.nextInt();
        n = i;
        setsize(i);

        setsize(i);
        get clear
        getcremarks();
        getseemarks();
    }
    void calculate ilesr()
    {
        result = 0;
        double temp = 0;
        double totalcredits = 0;
        for(int i=0; i<n; i++)
        {
            temp = temp + returncie marks(i);
            temp = temp + (return see marks(i)/2);
            totalcredits = totalcredits + return_credits(i);
            result = result + ((temp* return_credits(i))/100);
            temp = 0;
        }
```

```java
        }
        result = ( result / total credits ) * 10;
    }
    void printresult (int i)
    {
        System.out.println (" The SGPA of the "+(i+1)+"
        student is " + result );
    }
}

public class Main {
    public static void main (String args[])
    {
        Scanner xx = new Scanner (System.in);
        System.out.println (" Enter    the   number of
                                students ; ");
        int n = xx.nextInt ();

    public class Main {
        public static void main ( String args[] )
        {
            Scanner xx = new Scanner (System.in);
            System.out.println (" Enter the number of students; ");
            int n = xx.nextInt ();
            Result r [] = new Result [n];
            for ( int i=0; i<n ; i++)
            {  r [i] = new Result ();
               r [i] .calculateresult ();
            }  for ( int i=0; i<n ; i++)
            {  r [i]. printresult (i); }
        }
    }
}
```