

```

4) 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 student:");

```

```

        name = xx.next();

```

```

        xx.nextLine();

```

```

        System.out.print("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 the
        student is: "+sem);

```

```

    }
}

```

```

class Test exten

```

```

{
    private int a;
    private int b;
    private int c;

```

```

    void setsize()

```

```

    {

```

```

        n = m;

```

```

        a = new

```

```

        credits =

```

```

    }

```

```

    void getsize()

```

```

    {

```

```

        Scanner

```

```

        System

```

```

        name

```

```

        int i;

```

```

        for (i = 0

```

```

        {

```

```

            System

```

```

            name

```

```

            credits

```

```

            a

```

```

            b

```

```

            c

```

```

        }

```

```

    }

```

```

    void set

```

```

    {

```

```

        set

```

```

    }

```

```

    void get

```

```

    {

```

```

        get

```

```

    }

```

```

}

```


class Test extends Student

```
{  
    private int ci[];  
    private int credits[];  
    private int n;
```

```
    void setSize (int m)
```

```
{
```

```
        n=m;
```

```
        ci = new int[n];
```

```
        credits = new int[n];
```

```
}
```

```
    void getci marks()
```

```
{
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Enter the credits and ci  
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] = sc.nextInt();
```

```
        ci[i] = sc.nextInt();
```

```
}
```

```
    int returnci marks (int i)
```

```
{
```

```
        return ci[i];
```

```
}
```

```
    int return_credits (int i)
```

```
{
```

```
        return credits[i];
```

```
}
```


class Exam extends Test

{

private int see[];

private int n1;

void setSize(int n)

{

n1 = n;

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 + 1) + " subject:");

see[i] = xx.nextInt();

}

}

int returnSeeMarks(int i)

{

return see[i];

}

}

class Result extends Exam

{

private double result;

private int n;

Result

{

Scanner

get

System

run

in

n

&

s

get

g

}

void

{

run

do

do

for

{

}

to

}

run

void

{

}

run

void

{

}

Result()

```
{ Scanner xx = new Scanner (System.in);  
  getStudentdata();  
  System.out.println("Enter the number of  
  subjects: ");  
  int i = xx.nextInt();  
  n = i;  
  setSize(i);  
  setSize(i);  
  getmarks();  
  getmarks();  
}
```

void calculatorresult()

```
{  
  result = 0;  
  double temp = 0;  
  double totalcredits = 0;  
  for (int i = 0; i < n; i++)  
  {  
    temp = temp + returnci marks(i);  
    temp = temp + (returnseemarks(i)/2)  
    totalcredits = totalcredits + return_credits(i);  
    result = result + (temp * return_credits(i)/100);  
    temp = 0;  
  }
```

result = (result / totalcredits) * 10.

```
{  
  void printresult (int i)  
  {
```



```

system.out.println("The SGPA of the" + (i+1) + "
student is:" + result);
}
}
public class week7
{
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of
students:");
        int n = sc.nextInt();
        Result[] r = new Result[n];
        for(int i=0; i<n; i++)
        {
            r[i] = new Result();
            r[i].calculator();
        }
        for(int i=0; i<n; i++)
        {
            r[i].printresult(i);
        }
    }
}

```

③:

```

import java.util.*;
class Pl
{
    private
    print
    print
    print
}

```