```java
import java.util.Scanner;
class Student {
    private String USN;
    private String name;
    private int sem;
    void getstudent data ()
    {

        Scanner nn = new Scanner (system.in);
        S.println ("Enter USN");
        USN = nn.next();
        S.print (" Enter Name"); name = nn.next();
        S.print ('Enter sem.');
        sem = nn.nextInt();
    }

    void printstudentdata ()
    {

        S.out.print (" Name: " + name );
        S.print (" USN: " + USN );
        S.println (" sem: " + sem );
    }

}
class Test extends Student {
    private int cie[];
    private int credits [];
    private int n;
    void setsize (int m)
    {

        n = m;
        cie = new int [n];
```

```java
        credits = new int[n];
    }
    void get ciemarks ()
    {
        scanner uh = new scanner (system.in)
        S.println (" Enter creds and cie marks ");
        int i;
        for (i=0; i<n; i++)
        {
            D.out.print ("Enter creds and marks : ");
            credits [i] = uh.nextInt ();
            cie [i] = uh.nextInt ();
        }
    }

    int return cie marks (int i)
    {
        return cie [i];
    }
    int return_credit (int i)
    {
        return credits [i];
    }
}

class Enam extends Test {
private int ee [];
private int n1;
void set size1 (int m)
{
    n1 = m;
```

```java
        see = new int[n];
    }
void getsee marks()
{
    scanner nn= new scanner(system.in);
    D.println(" Enter see marks: ");
    int i;
    for(i=0; i <n1; i++)
    {
        D.println ("Enter " + (i+1)+ " subject: ");
        see [i]=nn.netInt ();
    }
}
int returnsee marks( int i)
{
    return see(i);
}
}
Class Result extends Exam {}
    private double result;
    private int n;
    Result()
    {
        scanner nn=new Scanner(System.in);
        getstudent data ();
        D.println(" Enter nu. of subjects: ");
        int i =nn.nextInt ();
        n=i;
        set size (i);
```

```java
setsize1(i);
set cie marks();
get seemarks();
}

void calculate result()
{

result = 0;
double temp = 0;
double total credits = d;
for (int i = 0; i<n; i++)
{

    temp = temp + returnciemarks(i);
    temp = temp + (returnciemarks(i)/2);
    totalcredits = totalcredits + return_credits(i);
    result = result + ((temp * return_credits(i))/100);
    temp = 0;
}

result = (result/totalcredits)*10;
}

void printresult(int i)
{

S.println("The SGPA of "+(i+1)+" student is +!"+result
}
}

public class Main {
public static void main(String arg[])
{

    scanner hh = new Scanner(System.in);
    S.println("Enter. no of students: ");
```

```
int n = n.new Int();
Result r[] = new Result[n];
for (int i=0; i<n; i++)
{

    n[i] = new Result();
    n[i].calculateresult();
}
for (int i=0; i<n; i++)
{

    n[i].primeresult(i);
}
}
}
```