Lab 6 Create a package CIE which has two classes – Student and Internals. The class internals has an array that stores the internal marks scored in five courses of the current semester of the student. Create another package SEE which has the class Externals which is a derived class of Student. This class has an array that stores the SEE marks scored in five courses of the current semester of the student. Import java the two packages in a file that declares the final marks of n students in all five courses.

```
package CIE;
import java.util.*;
public class internals extends student
{
    public int a[];
    public void input()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("enter cie marks
                                (5 subjects) out of
                                50");

        a = new int[5];
        for(int i=0; i<5; i++)
            a[i] = sc.nextInt();
    }
}
```

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```
package SEE;
import CIE.*;
import java.util.*;
public class internal extends
    CIE.student
    {
        public int a[];
        public void input()
        {
            Scanner se = new Scanner(System.in);
            System.out.println("enter see marks
                        (5 subjects) out of 100");
            a = new int[5];
            for(int i=0; i<5; i++)
                a[i] = se.nextInt();
        }
    }

import CIE.*;
import SEE.*;
import java.util.*;
class total
    {
        public static void main(String[] args)
        {
            Scanner se = new Scanner(System.in);
            System.out.println("enter number of
                        students");
            int n = se.nextInt();
            CIE.internals in[] = new
            CIE.internals[n];
            SEE.internals en[] = new
                SEE.internal[n];
```

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```
int total
for(int j=0; j<n; j++)
{
    System.out.println(" enter "+ (j+1)+""
                        student details :");
    in[j]= new CIE.internals();
    en[j]= new SEE.internals();
    in[j] = inputd()
    in[j] . input();
    en[j] . input();
}

System.out.println(" ");
for (int j=0; j<n; j++)
{
    in[j] . display();
    System.out.println(" \n student "+(j+1)
                    + "total marks:");
    for (int k=0; k<5; k++)
    System.out.println(in[j] . a[k]+
                    (en[j]-a[k]/2));
}
}

package CIE;
import java-util.*;
public class student
{
    public String usn, name;
    public int sum;
    public void inputd()
    {
        Scanner sc = new scanner (System.in);
```

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```
System.out.println(" Enter usn, name,
                              sem");
        usn = sc.next();
        name = sc.next();
        sem = sc.nextInt();
    }

    public void display()
    {
        System.out.println(" usn " + usn + "
            name = " + name + " sem = " +
                        sem);
    }
}
```

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