

Develop a java program and create a CIE package consists of student and Internal classes and SEE package consists of Externals and main class and display the students marks in internals & externals.

//student - Java

package CIE ;

import java.util.Scanner ;

public class Student

protected String USN = new String();

protected String name = new String();

protected int sem;

public void Input student details()

{

Scanner s = new Scanner (System.in);

System.out.println("enter USN:");

USN = s.nextLine();

System.out.println("enter Name:");

name = s.nextLine();

System.out.println("enter semester:");

sem = s.nextInt();

}

public void display student details()

{

System.out.println("USN: "+USN);

System.out.println("Name: "+name);

System.out.println("sem: "+sem);

}

}

```
//Internals.java
package CIE;
import java.util.Scanner;
public class Internals extends Student {
```

```
    protected int marks[] = new int[5];
    public void input CIEmarks () {
```

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

```
        System.out.println("Enter internal marks for " + name);
```

```
        for (i = 0; i < 5; i++)
```

```
        {
            System.out.println("subject " + (i+1) + "marks:");
```

```
            marks[i] = s.nextInt();
```

```
        }
```

```
    }
```

```
//Externals.java
```

```
package SEE;
```

```
import CIE.Internals;
```

```
import java.util.Scanner;
```

```
public class Externals extends Internals {
```

```
    protected int marks[];
```

```
    protected int final marks[];
```

```
    public Externals() {
```

```
        marks = new int[5];
```

```
        final marks = new int[5];
```

```
    public void input.SEEmarks () {
```

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

```
        System.out.println("Enter SEE marks for " + name);
```

```
        for (int i = 0; i < 5; i++)
```



```

System.out.println("subject " + (i+1) + "marks:");
marks[i] = s.nextInt();
}

```

```

public void calculate finalmarks() {
    for (int i = 0; i < 5; i++) {
        finalmarks[i] = marks[i] / 2 + super.marks[i];
    }
}

```

```

public void display finalMarks() {
    display studentdetails();
    for (int i = 0; i < 5; i++) {
        System.out.println("subject " + (i+1) + " : " +
            finalmarks[i]);
    }
}

```

//Main - java .

```
import SFE.Externals;
```

```
public class Main {
```

```
    public static void main (String args[]) {
```

```
        int num-of-students = 2;
```

```
        Externals final marks[] = new Externals
            (num-of-students);
```

```
        for (int i = 0; i < num-of-students; i++) {
```

```
            final marks[i] = new externals();
```

```
            final marks[i].input studentdetails();
```

```
            System.out.println("Enter CIE marks:");
```

```
            final marks[i].input CIE marks();
```

```
            System.out.println("Enter SEE marks:");
```

```
            final marks[i].input SEEmarks();
```

```
        System.out.println("Display data:");
```

```
        for (int i = 0; i < num-of-students; i++) {
```

```
            final marks[i].calculate finalMarks();
```

```

finalmarks[i].display finalMarks();
}
}
}

enter USN: IBM22CS254
enter name: shashank C
enter sem: 3
enter CIE marks:
enter Internal marks:
subject 1: 45
subject 2: 46
subject 3: 42
subject 4: 43
subject 5: 44
enter SEE marks:
enter SEE marks for shashank C
subject 1: 85
subject 2: 89
subject 3: 87
subject 4: 88
subject 5: 87
Display data:
USN: IBM22CS254
Name: shashank C
sem: 3
subject 1: 87
subject 2: 90
subject 3: 85
subject 4: 87
subject 5: 87

```

Wd
24-1-24