RD Create a package CIE which has I classes-Student & Internals. The class personal has members like usn, Name, sem. The class Inducals has an array that Stores the internal marks stoud in 5 courses of the Current semester of the student. Create another package SEE which has the class External which is a derived class of Student. This class has an array that Stores the set marks scored in 5 courses of the current sem of the student. Import the 2 packages in a file that dellares the final marks of n students in all 5 courses. ANSWER: -[Student:java] package «CIE; la Kalonani" public class Student ? Public String usn; public string name; public Studen() 33 public Student (String usn, String name, int sem) this usn = Usn; this . rame = name; this. Sem: Jen; [Intimals , lava] package CIE; impolit java util Scanner; public Unis Internals extends Student & Scanner in 2 now Scanner (System. in);

```
public void get ()
                     int-[5];
                              HWALOUGHAND INVA
                              A JOL Supri
  for (int i=0; i<5; i+1) {
  System.out. printle Enter CIE marks in subject "+ li+1)+"(out
  of 50) of the current semester: ");
  Cie [i]=in.nextInt();
333_
 package SEE:
  import java. util. Scanner;
  Public dass Externals extends CIE. Student & public Externals (String usn, String namer intsen)
  Super (usn, name, sem);
 Scanner J'in : new Scanner (System. in);
public mt [] see: new ent [5]
   public boid get ()
    System. out. print (") n");
    for (int 1: 0; 1<5; 1+) ?
    System out plant (" Enter the 8 EE marks in
    subject "+(i+1)+" (Out of 100) of this semester: ");
    see [i]= in. next[ntCD; 30 mm
 MITTER SUM SEE WOODEN COUNTY ( GROWN SEE
```

WILL WACIL

lifinalmacks. javas import CIE. *; import SEE. *; import java util*; class finalmarks ?
Public static void main (String ags []) ? Scanner in= new Scanner (System. in); System. out. printlu ("Enter fre number of students:"); int n=ine: nextInt(); SEE. Externals ob1[]: new SEE. Externals [5]; CIE. Internals Ob[]: new CIE. Enternals[5]; for (int 1:0; 12n; 1+4) Eystemout. peintln C" Enler the détails of student ", (it)); System. Out. print ("USN:"); String usn: m. rext(); System. out. print("NAME:"); String rame: in-next(); System Pout paint ("SEMESTER:"); the sema in next 2 nt (); 1+O+" John 06 [i]: new (IE. Internals (); 06 Li]= get(); outij: new see. comenteurals (usn, name, sem); obst[i]. get();

System out. printle ("STUDENT NUMBER "+(i+1));
for Cint j=0; j<5; j++) &

System out. printle ("SUBJECT"+(j+1)+" TOTAL MARKS:"
+ (ob[i]-cie[j]+ obl[i]. see[j]/2));

3333

```
Studentjava - Notepad

File Edit Format View Help

package CIE;

public class Student {

public String usn;

public String name;

public int sem;

public Student(){}

public Student(String usn, String name, int sem)

{

this.usn=usn;

this.name=name;

this.sem=sem;

}
```

```
Internals.java - Notepad
File Edit Format View Help
package CIE;
import java.util.Scanner;
public class Internals extends Student {
Scanner in=new Scanner(System.in);
public int[] cie=new int[5];
public void get()
{
for(int i=0;i<5;i++){
System.out.print("Enter CIE marks in subject "+(i+1)+"(out of 50) of the current semester : ");
cie[i]=in.nextInt();
}}</pre>
```

```
Externals.java - Notepad
File Edit Format View Help
package SEE;
import java.util.Scanner;
public class Externals extends CIE.Student {
public Externals(String usn, String name, int sem)
super(usn, name, sem);
Scanner in = new Scanner(System.in);
public int[] see=new int[5];
public void get()
System.out.print("\n");
for(int i=0;i<5;i++){
System.out.print("Enter the SEE marks in subject "+(i+1)+"(out of 100) of this semester : ");
see[i]=in.nextInt();
```

```
finalmarks.java - Notepad
File Edit Format View Help
import CIE. *:
import SEE.*;
import java.util.*;
class finalmarks{
public static void main(String args[])
Scanner in=new Scanner(System.in);
System.out.println("Enter the number of students:");
int n=in.nextInt();
SEE.Externals ob1[]=new SEE.Externals[5];
CIE.Internals ob[]=new CIE.Internals[5];
for(int i=0;i<n;i++)
System.out.println("Enter the details of student number "+(i+1));
System.out.print("USN:");
String usn=in.next();
System.out.print("NAME:");
String name=in.next();
System.out.print("SEMESTER:");
int sem=in.nextInt();
ob[i]=new CIE.Internals();
ob[i].get();
ob1[i]=new SEE.Externals(usn,name,sem);
ob1[i].get();
for(int i=0;i<n;i++){
System.out.println("STUDENT NUMBER "+(i+1));
for(int j=0;j<5;j++){
System.out.println("SUBJECT "+(j+1)+"TOTAL MARKS:"+(ob[i].cie[j]+ob1[i].see[j]/2));
```

```
C:\Users\srish\Documents>javac finalmarks.java
C:\Users\srish\Documents>java finalmarks.java
Enter the number of students
Enter details of student number 01
USN: 1bm19cs001
NAME: derek
SEMESTERAS
Enter cie marks(out of 50) in subject 1 : 45
Enter cie marks(out of 50) in subject 2 : 44
Enter cie marks(out of 50) in subject 3 : 46
Enter cie marks(out of 50) in subject 4 : 47
Enter cie marks(out of 50) in subject 5 : 41
Enter the see marks(out of 100) in subject 1: 100
Enter the see marks(out of 100) in subject 2: 99
Enter the see marks(out of 100) in subject 3 : 96
Enter the see marks(out of 100) in subject 4 : 78
Enter the see marks(out of 100) in subject 5 : 79
STUDENT NUMBER 01
SUBJECT 1:145
SUBJECT 2:143
SUBJECT 3:142
SUBJECT 4:125
SUBJECT 5:120
```