Q. Create a package CIE which has two classes Student and Internal Marks. The class internals has an array that stores the internal marks scored 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 SEE marks scored in 5 courses of the current semester of the student. Import the two semeste packages in a file that declares the final marks of n students in all 5 courses.

Package CIE;

```
impost java. util. Scannes;
public class student {
      protected string usn;
      protected string name;
      protected int sem;
     public void inputstudent Details () {
          Scannex sc=new Scannex (System.in);
          5.0.p ("Entex usn: ");
          usn = sc. nextLine();
          s.o. p("Entex name: ");
          name = sc. nextline();
         S.o.p (Enter sem:");
         sem=sc. nextInt();
     public void displaystudent Details () {
           5.0, p ("USN: "+USN);
           s.o.p ("Name:" +name);
          s.o.p ("semester:"+sem);
```

package CIE;
impost java. util. Scannes;
public class Internals extends student;
protected int[] marks = new int[s];

```
public void inputCIEMaxKS() {
      Scanner scanner = new scanner (System.in);
      5.0.p (Enter internal marks for 5 courses:");
      fox (int 1=0; 125; 1++) {
        5.0.P(Enter marks for course"+ (i+1)+":");
        marks[i] = scanner. next In+();
public void displayCIEMONKSC) {
    s o p (Internal marks for 5 courses:");
    fox (int 1=0; 1<5; 1++) }
       S.O.P (Course"+(i+1)+": "+ marks[i]);
               : ([i] = NEW MONITY : " + (I+1) + "SEW (I))
package SEE;
impost java. util. Scanner:
                                         calmosty3. 32 too
import CIE. Internals:
public class Externals extends Internals {
     protected int[] external Marks = new int[5];
     protected int [] externo final Marks = new int [5];
     public Externals() {
        marks = new int[5];
       external Marks = new in+ (5);
        final Masks = new int [5];
                           ender a studente e news tr
    public void inputSEE MaskSC) ;
       Scanner sx=new scanner (Systemin);
       S.o.p (Enter external marks for 5 courses: ");
       for (int i=0; i<5; i++) {
          3.0. P (Enter mains for course ; "+ (i+1)+": ").
          external Marks [i] = 6x. next Int();
```

```
calculateFinalMaxKS
      public void inputstudent Details () }
        Scannes sa= New Scanner (System. in);
        5-0-P("Enter usn:");
        Usn: Sa. next Linet;
        for (int i=0; i<5; i++) {
            final Marks [i] = marks [i] + external Marks [i];
    public void display Final Marks () {
         displaystudent Details();
         display CIEMarKS();
        5.0.p ("Final masks (Internal + External) for 5 courses:");
        for (int i=0; i<5; i++){
           5.0.p ("Coxse"+(i+1)+": "+final Marks[i]);
impost SEE. Externals;
impost java. util. Scannes;
public class Main {
      psum (string[] args) {
          Scanner sv= new scanner (system.in);
         S.O.P ("Enter the number of students?"),
         int n = sv.nextInt();
         Externals[] students = new Externals[n];
         for (int i=0; i<n; 1++) {
            Students[i] = New Externals();
            s.o.p (Enter details for students "+(i+1);
            students [i]. input student Details ();
            Students [i] input CIEMarks();
           Students [i]. Input SEE MOOKS();
           Students (i). calculate Final Marks ();
       for (int icojikn; i++) {
            student [i] · displayFinalMarks ():
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          trootspars management as some at 2013 sent theirs
autput:
Enter the number of students: 1
Enter details for student 1
Entername: Akash
Enter USN: 1BM23CS001
Enter semester: 3
Enter Internal Marks for 5 Goverses:
                                           SOUND SOHODOW
Enter marks for Course 1:40
Enter morks for course 2:36
                    3:38
                    4:45
                    5:49 3/11 " : roitgox3 spriprocus" nector
Enter External masks for 5 courses:
Enter marks for course 1:49
                            TANCO ( or oge) throws bronginges
                 2:46
                 3:42
                                          21020001
                 4:40
   5:38
USN: 1BM23CS00+
Name: Akash
Semester: 3
Internal Marks for 5 Lourses:
louxse 1:40
Course 2:36
laurse 3:38
6005e4:45
60xses: 49
final Marks (Internals + External) for 5 courses:
Louise 1: 89
Course 2:82
Corse 3:80
           though ad to a now one agost appropriate upp or not
Course 4: 85
```

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S.O.PC);

Courses: 87

C:\\317\6\_Packages>java Main
Enter the number of students: 1
Enter details for students: 1
Enter USI: IBM23CS001
Enter Name: Akash
Enter Sense S C:\317\6\_Packages>

C:\Windows\System32\cmd.e ×