a) create a package CIE which how two classes Student and
Internals. The class student how members like use now and
the class substituted derived from student how are away that
stores the internals marks scared in fine courses of the
current semester of the student. caucast onether toekage see
current semester of the student. caucast onether toekage see
which has the class Estaval which is a derived class of
which has the class has an other that stores the see
student. The class has an other that stores the semester
marks secred in five courses of the current semester
of the student. Import the two packages in a fell
of the student. Import the two packages in a fell
that declares the final marks of in students in all the
courses.

package CIE;

simport jour util Scarra,

pulable class student {

String wan = new Stringe;

String name = new Stringe;

Int sem;

Scarrer Sc = new Scarrer (System in),

public void inpublished details () {

System out printle ("Enter wen"),

van = sc. next ();

System out printle ("Enter rame"),

name : Sc. next();

System out printle ("Enter Semester:");

Sem = Sc. next Int();

public vaid displaystudent details () {

System out printles ("Nane:"+ name),

System out printle ("USN:"+ usn);

System out printle ("Semester:"+ sem);

?

7

```
package (15;
  Import java ulil Scanner;
  public class Internals entereds Student &
            public int marks [] = new int [5],
            public void input (IE marks () {
                 Scanner Scanner (System in)
                 for ( int i = 0; i = 5; i + 1) {
                        System out println ( Enter XV CIE warks of subjul - (1)
                      waske [i]: sc. nextInt(),
package SEE;
 import CIE. Internals;
 in port java util . Scanner:
  public class Externals entends Internals {
         protected int seemarks [] = new int [5];
         protected int finalMarks () = new int [5];
         Scanner se: new Scanner (system in);
          public void input SEE marks () {
             for (sint 1:0; ils; i++) {
                   System.out. println ( tuter SET marke of subject "+ (i+1)":
                 scemarks (i) = sc. noxtInt();
         public void colculate Final Marks () {
            for ( int i= 0; i=5; i++) {
final Marks [i]= warks [i] + (seewarks [i]/2);
}
        public world desplay tral Marks () {
                duar for (int 100, 125, 14) [
                       System out printled Final works of in subject stireds
                                                 "A: " + finalmarks[1])
```

```
import SEE. Externals:
 import CIE * !
 class Main $
   public static vaid wain (string args ()) {
                Internals i= new Internals ();
                Externals e= now Externals():
                i. input student details ().
                 i. displaystudent details ( ):
                 ( Input (IT Masks ();
                 e. input SEE Marks ();
                 e. calculate Final Marks ();
                e. display ftinal Markel);
autput:
  Enter uso.
   1 EM 23 CSO22
  Enter Home:
   Akshay
   Enter Somester:
   Name: Akstray
   USN: IEMZZCSOZZ
   semester: 3
   Enter CIE marks of subject 1: 50
   Enter CIE marks of subject 2:49
    Exter CIE marks of subject 3:48
    Exter CIT marks of subject 4: 47
    Enter CIE works of subject 5: 46
     Enter SEE marks of subject 1: 96
     Enter SEE manks of subject 2. 97
     taker SEE marks of subject 3: 98
                works of subject 4: 99
     Entor SEE
     Enter SEE works of subject 5: 100
     Final marks in subject 1 is: 48
     Final marks in subject 2 is: 48
     Final masks in subject 3 is: 49
    Final marks in subject 4 16:49
      that wasks in subject 5 4:50
```