LAB-6 23/01/2024 create a package CIE which has two classes-Student A Internals. The class student has members like own, pame, sem. The class internals derived from student has an array that stores the internal marks scored in five courses of the current sem of the student. Create another parchage SEF which has the class External which is a derived class of Student. This class has an array that stores the SEE marks ecored in five course package CIE; import java util . \*; public class student ? protected string usn = new string (); protected string name = new string(); protected int sem; public void input student Details () { Scanner S = new Scamer (Systemin); this, usn = s. nextline(); this name = s. nextline(); this sem = s nextint(); public void displayStudent Details (){ System. out. println (this. usn + " " + this. name + " + this sem);

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package CIE;
import java util Scanner;
public class Internals extends Students
      protected int marke[] = new int[5];
       pubic void input(IEmarks(){
            Scanner s=new Scanner (systemain);
            for Cint i=0 ; i(5 jitt)
               marks[i] = s.nextInt();
 3
package SEE;
impost CIE. Internals;
impost java. util. scanner;
 public class Externals extends Internals &
     protected int marks[];
      protected int final Marke [];
      public Externals() {
           marks = new int[5];
           finalMarks = new int[s];
      2
      public void inputSEE marke () {
          Scanner & = new Scanner (system.in);
          for (int i=0; i(5; i++) {
              System.out printin ("subject "+ (it 1)+" marks:
              marks[i]=s.nextInt();
         4
      public void calculate Final Marks ();
          for (int i=0; ics sitt)
               final Marks [i] = marks[i]/2 + super-marks[i]
```

| pubic void displaceFinalMaxks() {                         |
|---|
| display Student Details ();                               |
| for (int i=0; i <5; i+t)                                  |
| System-out-println ("Subject" + (i+1)+":")+               |
| finalMaxIcs[i]);  |
| 7   |
|   |
|   |
| import SEE. Externals;                                    |
| class Main {  |
| public static void main (string args[]) {                 |
| int pum Of Students = 2;                                  |
| Externals final Marks [] = new Externals Trum Of Students |
| for (int i=0; i < numOfstudents; itt) {                   |
| finalMarks[1] = new Externals();                          |
| fincelMarks id inputstudent Details ();                   |
| System. out. println ("Enter (IE marks");                 |
| final Marks [i] input (IE marks ();                       |
| System. out. println ("Fater SFE marks");                 |
| final Marks [i]. inputSFE marks ();                       |
| 7   |
| System. out printin("Displaying Duta:/h");                |
| and see a snumar students sitting                         |
| a source [ ] - calculate tincel vices ()                  |
| final Markelid, display Final Marks ();                   |
| 3 system out println ("samketh M Hangsi IBMD (C212");     |
| System out printly ( samely it have                       |
| 3   |
|   |
|   |
|   |

```
Output:
  Enter student details:
  1BM22CS242
  Sanketh
  Enter CZE marks;
  subject 1: 40
  Subject 2: 45
  Subject 3: 41
   Subject 4: 48
  Subject 5: 44
   Enter SEE marks:
  Subject 1:80
   Subject 2: 90
  Subject 3: 86
   subject 4: 80 m/m
   Subject 5: 84
   Enter student details:
   1BM22.C5243
   Scentosh
   3
   Enter CIE maxics;
   Subjet 1: 50
   Subject 21 45
   Subject 3: 40
   Subject 4: 48
    cubicot 5: 46
   Enter SFF marker:
   subject 1: 90
   Subject 2: 96
    Subject 3: 100
    Subject 4:95
    subject 5: 92
```

Displaying Detalis: nen: 18W35CC3115 Name: Banketh sem:3 WANT KENTANDANAN subject 1: 80 subject 2: 90 subject 3: 824 subject 4: 88 subject 5: 86 USW:1BM22.56243 Name: Santosh Sem:3 subject 1: 95 Subject 2: 93 subject 3:90 Subject 4: 46 Subject 5: 92 Sanketh M. Hancel IBM22C5242