```
// Internals.java
package CIE;
public class Internals{
  public int[] marksInternal = new int[5];
  public void set(int[] marks){
    for(int i=0; i<marks.length; i++){</pre>
      marksInternal[i] = marks[i];
    }
  }
  public int[] get(){
    return marksInternal;
  }
}
// Suudent.java
package CIE;
public class Student{
  public String usn;
  public String name;
  public int sem;
  public Student(String usn, String name, int sem){
    this.usn = usn;
    this.name = name;
    this.sem = sem;
  }
}
```

```
// Externals.java
package SEE;
import CIE.Student;
public class Externals extends Student{
  public int[] marksSEE = new int[5];
  public Externals(String usn, String name, int sem){
    super(usn, name, sem);
  }
  public void set(int[] marks){
    for(int i=0; i<marks.length; i++){</pre>
      marksSEE[i] = marks[i];
    }
  }
  public int[] get(){
    return marksSEE;
  }
}
// Main.java
import CIE.*;
import SEE.*;
import java.util.Scanner;
public class LP6 {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    int n;
    System.out.println("Enter the number of students: ");
    n = sc.nextInt();
```

```
Student[] studs = new Student[n];
Internals[] internals = new Internals[n];
Externals[] externals = new Internals[n];
for(int i=0; i<n; i++){
  System.out.println("Enter the USN: ");
  String usn = sc.next();
  System.out.println("Enter name: ");
  String name = sc.next();
  System.out.println("Enter the sem: ");
  int sem = sc.nextInt();
  studs[i] = new Student(usn, name, sem);
  internals[i] = new Internals();
  externals[i] = new Externals(usn, name, sem);
  System.out.println("Enter marks of internals: ");
  int[] marksInt = new int[5];
  for(int j=0; j<5; j++){
    marksInt[j] = sc.nextInt();
  }
  internals[i].set(marksInt);
  System.out.println("Enter marks of see: ");
  int[] marksSee = new int[5];
  for(int j=0; j<5; j++){
    marksSee[j] = sc.nextInt();
  }
  externals[i].set(marksSee);
}
```

```
for(int i=0; i<n; i++){
    System.out.println("USN: " + studs[i].usn);
    System.out.println("Name: " + studs[i].name);

int[] totalMarks = new int[5];
    int[] marksInt = internals[i].get();

int[] marksSee = externals[i].get();

for(int j=0; j<5; j++){
    totalMarks[j] = marksInt[j] + marksSee[j]/2;
    System.out.println(totalMarks[j]);
    }
}</pre>
```

14/12/2024 Lab-Program-6 keate a package CIE wwich has 2 classes - Student & Interest The class Personal has members like usn, name, sem. The class internals has an array that stores the internal marks scored in flue courses of the current semester of the student . (reate 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 semister of the student most the a packages in a file that declases the final marks of nstudents in all five courses. CIE 1 Stradent vava package CIE; public class Strident & public strong name: public sitting usn; public int sem; public Student (String usn, String name, int sem) ? +luis-usn = usn; + cuis name = name; +wis sem = sem; CIE / Antoand Jowa public class & mount public from Public intEJ marks Internal = new int [5]; public void set(int[] marks) & for(Int 1:0; (cmarks. length; i+t) { markenremaltiz = marketiz; public Void () get () § return market internal;

```
15 regnals java
Package SEE;
 Import CIE student;
public class Externals entends Student &
    public IntEZ markeSEE = new IntEs];
    public Externals (storing usn, strong name, Int sem
   super (us, name, sem);
 public void set (int() masks) {
        follmt 1=0; semasks length; 2++){
           marks EEE [1] = marks [i];
    public Int[] get() {
          setuen marks SEE.
LPG. Paire
emport CIE·x;
Import SEE. x;
import para utal Scanner;
public class LPGS
   public static voted main (Strong () asgs) }
       Scanner &c = new Scanner ( 845tem in);
       int n;
       System-out-println ("Enter the number of students:");
       n = 8c-next Int().
       Student[] stude = new Student [n].
       Internals [] internals = new Enternal Enj;
       Externals [] externals = new Extermal[n];
       for (Pnt =0; P<n; 0++) {
          System-out position ("Enter the OSD: ");
          String usn = sc. neat ().
          System. out-println ("Fotel name: ");
           Hory name = 80 mont ();
           System-out printen (" Fires sem : ");
           ht sem = sc-next Int (
```

```
stude [J = new Student (Jum, name, sem);
  internals ():
  Externals (3 = new Externals (even, name, sem).
  System-out-println (" tortes marks of internals: ");
  int [] markernt = new int[5];
  for (int j=0; 1<5; j++){
      marks Int[i] = sc nent Int();
  internall (i). set (marks Int).
   System out-point in ("Ente marks of SEEs");
   int[] maske see = new Int[5].
   for (Int j=0; j<5; j++) {
marks See G: ] = sc. nextInt();
   enternals[13. set(marksee);
for (Int i=0; (<n; i++){
    System-out-printful "USN: "+ Studs [17. TUBN);
    System-out. println (" Nouse: "+ stude (i) name);
    int [] to tal Marks = new Int[5];
    int(7 marksInt = internals (it get ();
    Protes marks see = enternals list. get ();
    feel (int y=0; j<5; j++) g
         total Marks G1 = marketut G1 + marke see G1/2;
         System out printen (total Halls (37);
```

Output: - Enter the number of strice Enve the USN: 1BM 23CS 304 Enter name: Ali Semesters ture internal marks por 5. courses: 18 20 15 17 19 Trues marks of SEE: 70 RO 75 60 90 Enter the USN: 18423CS298 Enter name: Cilan Semes rex: Enrel marks of internals: 82 19 20 10 21 Tutes marks of SEE: 65 75 70 85 60 Trites the USN: 1 BM23 CS 321 outer name: 8mha Semester: Buter marks of Internals; 16 18 22 20 17 Intel malks of SEF: 70 82 68 75 70

AGBMI: 1B423C504 Dame: Ali USN: 18403 CS298 Name: Octan 54 56 651 USN: 18M23CS321 Name ; Sinha 559 567 52