29/1/24 LAB PRAM- 6 Parlegge - CIE & SEE Muke CIE Parkay - On CIE folder = Student java : public sting vsn, name; public int dem; pullie Student (String usn, String name, int sem) Internals : java : port CIE. Student; public class Internals extends Student public double [] internal Marker = new double [5]; public Internals (Steing USN, String name, int sem, double ] sinternal Marker) this internal Marks = internal Marks 's



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	Final Marks. java:
1.14	import CIE, Internals;
	import SEF. External;
	import java util learner
	public class Final Marks
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	public static void main (this [ ] args)
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	learner input = new bearing (bystem. In)
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{

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 + (i+1));

 hutens out. Decit (41-+) System out . print ("Inter USN:"); String usn: input. next (); System out pent ("Intu name: "); String name = input next ();
System out . print (" Inter semester : "); int sem = input, next Int (); input, next time(); double [] internal Marks = new double [5]; System-out. peint (" Litry the level Months for 5 powers: ");

for (int j = 0; j < 5; j + 4)

internal Marks [j] = input : nent Double ();

3 intende [i] = new Internals (usn, name, sem intended) for (int i=0; (<n; i++) String usn = internals [i]. usn; Iting name = internals [i]. name; nt lem = mlemy [i]. um; double [] ex Marks = new double [5]

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## 1. Package CIE – Student.java

```
package CIE;

public class Student {
  public String usn, name;
  public int sem;

public Student(String usn, String name, int sem) {
    this.usn = usn;
    this.name = name;
    this.sem = sem;
  }
}
```

## 2. Package CIE – Internals.java

```
package CIE;
import CIE.Student;

public class Internals extends Student {
   public double[] internalMarks = new double[5];
```

```
public Internals(String usn, String name, int sem, double[] internalMarks) {
    super(usn, name, sem);
    this.internalMarks = internalMarks;
  }
}
   3. Package SEE – External.java
package SEE;
import CIE.*;
public class External extends Student {
  public double[] seeMarks = new double[5];
  public External(String usn, String name, int sem, double[] seeMarks) {
    super(usn, name, sem);
    this.seeMarks = seeMarks;
  }
}
```

4. FinalMarks.java – outside the package folders

```
import CIE.Internals;
import SEE.External;
import java.util.Scanner;
public class FinalMarks {
  public static void main(String[] args) {
    Scanner input = new Scanner(System.in);
    System.out.print("Enter the number of students: ");
    int n = input.nextInt();
    input.nextLine();
    Internals[] internals = new Internals[n];
    External[] externals = new External[n];
    // Input Internal Marks
    for (int i = 0; i < n; i++) {
      System.out.println("Enter details of Student " + (i + 1));
      System.out.print("Enter USN: ");
      String usn = input.nextLine();
      System.out.print("Enter Name: ");
      String name = input.nextLine();
//input.nextLine();
```

```
System.out.print("Enter Semester: ");
       int sem = input.nextInt();
       input.nextLine();
       double[] internalMarks = new double[5];
       System.out.print("Enter Internal Marks for 5 courses: ");
       for (int j = 0; j < 5; j++) {
         internalMarks[j] = input.nextDouble();
       }
input.nextLine();
       internals[i] = new Internals(usn, name, sem, internalMarks);
    }
    // Input SEE Marks
    for (int i = 0; i < n; i++) {
       System.out.println("Enter SEE Marks for 5 courses of Student " + (i+1) + "
" + internals[i].name);
       String usn = internals[i].usn;
       String name = internals[i].name;
       int sem = internals[i].sem;
       double[] seeMarks = new double[5];
       for (int j = 0; j < 5; j++) {
         seeMarks[j] = input.nextDouble();
       }
       externals[i] = new External(usn, name, sem, seeMarks);
```

```
}
    // Display Final Marks
    System.out.println("\nFinal Marks of Students:");
    for (int i = 0; i < n; i++) {
       System.out.println("Student " + (i + 1) + " : USN: " + internals[i].usn +
"\nName: " +
           internals[i].name + "\nSemester: " + internals[i].sem);
       for (int j = 0; j < 5; j++) {
         System.out.println("Subject " + (j + 1) + ": " +
              ((internals[i].internalMarks[j]) + (externals[i].seeMarks[j] / 2)) +
"\n");
       }
       System.out.println();
    }
  }
}
Compilation:
```

javac CIE/Student.java CIE/Internals.java SEE/External.java FinalMarks.java

java FinalMarks

## Output: Enter the number of students: 2 Enter details of Student 1 Enter USN: 1BM22CS078 Enter Name: Charan G **Enter Semester: 3** Enter Internal Marks for 5 courses: 48 47 49 45 50 Enter details of Student 2 Enter USN: 1BM22CS456 Enter Name: Vibinn Noothan **Enter Semester: 3** Enter Internal Marks for 5 courses: 49 48 49 49 49 Enter SEE Marks for 5 courses of Student 1 Charan G 85 89 90

95

99

Enter SEE Marks for 5 courses of Student 2 Vibinn Noothan

95

98

99

97

98

Final Marks of Students:

Student 1: USN: 1BM22CS078

Name: Charan G

Semester: 3

Subject 1: 90.5

Subject 2: 91.5

Subject 3: 94.0

Subject 4: 92.5

Subject 5: 99.5

Student 2: USN: 1BM22CS456

Name: Vibinn Noothan

Semester: 3

Subject 1: 96.5

Subject 2: 97.0

Subject 3: 98.5

Subject 4: 97.5

Subject 5: 98.0