

```
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J Personal.java 2 X J Internals.java 2 J External.java 2 J FinalMarks.java 2

C: > Users > KALYAN > Desktop > SEM3 > java > cie > J Personal.java > {} cie

1 package cie;
2 import java.util.Scanner;
3 public class Personal {
4     public String usn, name;
5     public int sem;
6
7     public void read() {
8         Scanner sc = new Scanner(System.in);
9         System.out.print(s: "Enter USN: ");
10        usn = sc.nextLine();
11        System.out.print(s: "Enter Name: ");
12        name = sc.nextLine();
13        System.out.print(s: "Enter Semester: ");
14        sem = sc.nextInt();
15    }
16
17    public void display() {
18        System.out.println("USN: " + usn);
19        System.out.println("Name: " + name);
20        System.out.println("Semester: " + sem);
21    }
22 }
23
```

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J Personal.java 2 J Internals.java 2 X J External.java 2 J FinalMarks.java 2

C: > Users > KALYAN > Desktop > SEM3 > java > cie > J Internals.java > {} cie
1 package cie;
2 import java.util.Scanner;
3
4 public class Internals {
5     public int internalMarks[] = new int[5];
6
7     public void readInternals() {
8         Scanner sc = new Scanner(System.in);
9         System.out.println(x: "Enter 5 Internal Marks:");
10        for (int i = 0; i < 5; i++) {
11            internalMarks[i] = sc.nextInt();
12        }
13    }
14 }
15
```

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J Personal.java 2J Internals.java 2J External.java 2 XJ FinalMarks.java 2

C: > Users > KALYAN > Desktop > SEM3 > java > see > J External.java > External > readSEE()

1 package see;  
2 import cie.Personal;  
3 import java.util.Scanner;  
4  
5 public class External extends Personal {  
6 public int seeMarks[] = new int[5];  
7  
8 public void readSEE() {  
9 Scanner sc = new Scanner(System.in);  
10 System.out.println(x: "Enter 5 SEE Marks:");  
11 for (int i = 0; i < 5; i++) {  
12 seeMarks[i] = sc.nextInt();  
13 }  
14 }  
15 }  
16

```
Run Terminal Help Search
Personal.java 2 Internals.java 2 External.java 2 FinalMarks.java 2 X

C: > Users > KALYAN > Desktop > SEM3 > java > FinalMarks.java > ...
1 import cie.*;
2 import see.*;
3 import java.util.*;
4
5 public class FinalMarks {
6     public static void main(String[] args) {
7
8         Scanner sc = new Scanner(System.in);
9         System.out.print(s: "Enter number of students: ");
10        int n = sc.nextInt();
11
12        Personal p[] = new Personal[n];
13        Internals in[] = new Internals[n];
14        External ex[] = new External[n];
15
16        for (int i = 0; i < n; i++) {
17            System.out.println("\nEnter details of Student " + (i+1));
18
19            p[i] = new Personal();
20            p[i].read();
21
22            in[i] = new Internals();
23            in[i].readInternals();
24
25            ex[i] = new External();
26            ex[i].readSEE();
27        }
28
29        // Display Final Marks
30        System.out.println(x: "\n----- FINAL MARKS OF STUDENTS -----");
31
32        for (int i = 0; i < n; i++) {
33            System.out.println("\nStudent " + (i+1));
34            p[i].display();
35
36            System.out.println(x: "Final Marks in 5 Courses:");
```

Personal.java 2

Internals.java 2

External.java 2

FinalMarks.java 2 X

C: > Users > KALYAN > Desktop > SEM3 > java > FinalMarks.java > ...

```
5 public class FinalMarks {
6     public static void main(String[] args) {
36         System.out.println(x: "Final Marks in 5 Courses:");
37
38         for (int j = 0; j < 5; j++) {
39             int finalMarks = in[i].internalMarks[j] + (ex[i].seeMarks[j] / 2);
40             System.out.println("Course " + (j+1) + ": " + finalMarks);
41         }
42     }
43 }
44 }
45
```

C: > Users > KALYAN > Desktop > SEM3 > java > J FinalMarks.java > ...

```
5 public class FinalMarks {
```

PROBLEMS 8 DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\KALYAN> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\KALYAN\AppData\Local\Microsoft\Windows\WinSxS\x-ww7r91c0d1c0000\dt.ls-java-project\bin' 'FinalMarks'

Enter number of students: 1

Enter details of Student 1

Enter USN: 1bm243fh

Enter Name: ram

Enter Semester: 3

Enter 5 Internal Marks:

45

49

39

45

50

Enter 5 SEE Marks:

98

96

89

93

90

----- FINAL MARKS OF STUDENTS -----

Student 1

USN: 1bm243fh

Name: ram

Semester: 3

Final Marks in 5 Courses:

Course 1: 94

Course 2: 97

Course 3: 83

Course 4: 91

Course 5: 95

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