

The screenshot shows a Java code editor interface with the following details:

- Menu Bar:** Go, Run, Terminal, Help.
- Toolbar:** Includes icons for back, forward, search, and other file operations.
- Search Bar:** A search input field labeled "Search".
- File Tabs:** Four tabs are visible: "Personal.java 2 X", "Internals.java 2", "External.java 2", and "FinalMarks.java 2".
- Code Area:** The "Personal.java 2 X" tab is active, displaying the following Java code:

```
C: > Users > KALYAN > Desktop > SEM3 > java > cie > 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("Enter USN: ");
10        usn = sc.nextLine();
11        System.out.print("Enter Name: ");
12        name = sc.nextLine();
13        System.out.print("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
```

A screenshot of a Java code editor interface. The menu bar at the top includes 'Run', 'Terminal', and 'Help'. Below the menu is a toolbar with icons for back, forward, and search. The tab bar shows four files: 'Personal.java 2' (selected), 'Internals.java 2 X', 'External.java 2', and 'FinalMarks.java 2'. The status bar at the bottom displays the file path: 'C: > Users > KALYAN > Desktop > SEM3 > java > cie > Internals.java > { } cie'. The main code editor area contains the following Java code:

```
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("Enter 5 Internal Marks:");
10        for (int i = 0; i < 5; i++) {
11            internalMarks[i] = sc.nextInt();
12        }
13    }
14 }
15
```

o Run Terminal Help ← → ⌂ Search

J Personal.java 2 J Internals.java 2 J External.java 2 X J 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("Enter 5 SEE Marks:");
11        for (int i = 0; i < 5; i++) {
12            seeMarks[i] = sc.nextInt();
13        }
14    }
15 }
16 }
```

The screenshot shows a Java code editor interface with the following details:

- File Tabs:** Personal.java 2, Internals.java 2, External.java 2, FinalMarks.java 2 (active tab).
- Path Bar:** C: > Users > KALYAN > Desktop > SEM3 > java > FinalMarks.java > ...
- Code Content:** The code defines a class FinalMarks with a main method. It uses Scanner to read student details and creates arrays of Personal, Internals, and External objects.

```
1 import cie.*;
2 import see.*;
3 import java.util.*;
4
5 public class FinalMarks {
6     Run | Debug
7     public static void main(String[] args) {
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:");
}
```

```
J Personal.java 2   J Internals.java 2   J External.java 2   J FinalMarks.java 2 X
C:> Users > KALYAN > Desktop > SEM3 > java > J FinalMarks.java > ...
5  public class FinalMarks {
6      public static void main(String[] args) {
36         System.out.println("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\Temp\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
PS C:\Users\KALYAN> 
```