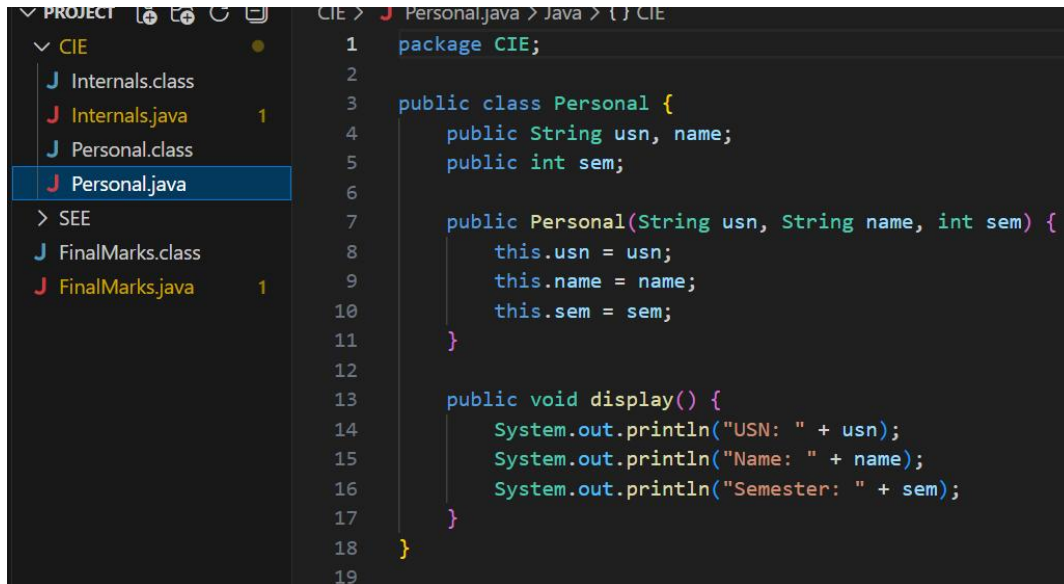
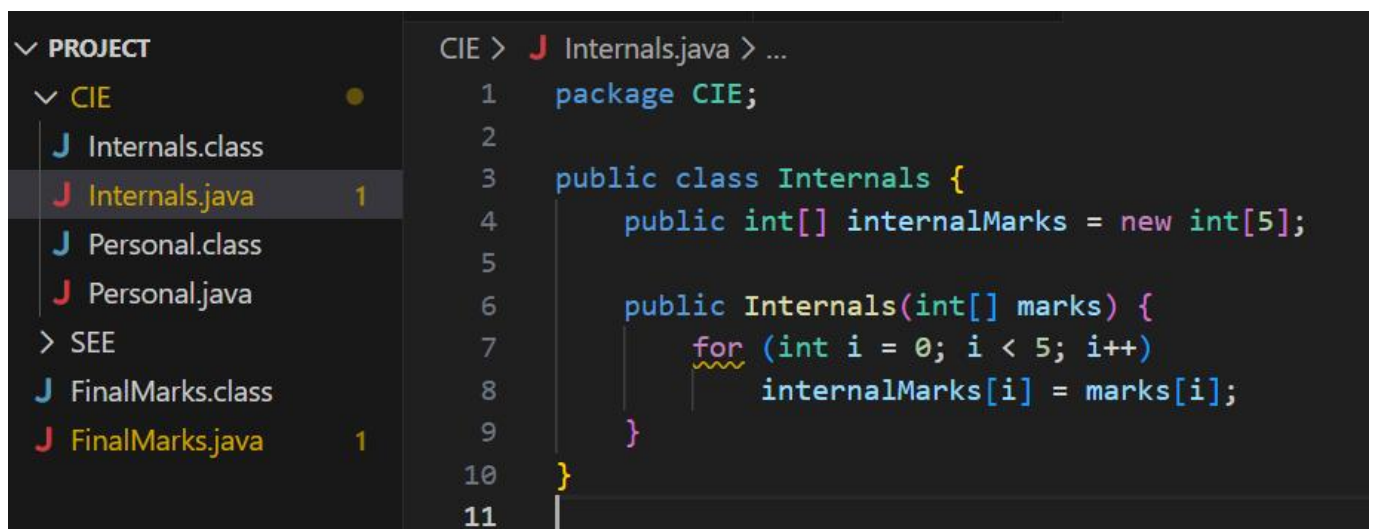


WEEK 6



The screenshot shows an IDE with a project named 'PROJECT'. Under the 'CIE' package, the following files are listed: Internals.class, Internals.java (1), Personal.class, Personal.java (selected), FinalMarks.class, and FinalMarks.java (1). The code editor displays the content of Personal.java:

```
1 package CIE;
2
3 public class Personal {
4     public String usn, name;
5     public int sem;
6
7     public Personal(String usn, String name, int sem) {
8         this.usn = usn;
9         this.name = name;
10        this.sem = sem;
11    }
12
13    public void display() {
14        System.out.println("USN: " + usn);
15        System.out.println("Name: " + name);
16        System.out.println("Semester: " + sem);
17    }
18 }
19
```



The screenshot shows the same IDE with the 'CIE' package expanded. The file 'Internals.java' (1) is selected. The code editor displays the content of Internals.java:

```
1 package CIE;
2
3 public class Internals {
4     public int[] internalMarks = new int[5];
5
6     public Internals(int[] marks) {
7         for (int i = 0; i < 5; i++)
8             internalMarks[i] = marks[i];
9     }
10 }
11
```

```
PROJECT
  CIE
    Internals.class
    Internals.java 1
    Personal.class
    Personal.java
  SEE
    FinalMarks.class
    FinalMarks.java 1

FinalMarks.java > Language Support for Java(TM) by Red Hat > FinalMarks > main(String[])
1  import CIE.*;
2  import SEE.*;
3  import java.util.*;
4
5  public class FinalMarks {
6      Run | Debug | Run main | Debug main
7      public static void main(String[] args) {
8          Scanner sc = new Scanner(System.in);
9
10         System.out.print(s: "Enter number of students: ");
11         int n = sc.nextInt();
12
13         Internals[] internal = new Internals[n];
14         External[] external = new External[n];
15
16         for (int i = 0; i < n; i++) {
17             System.out.println("\nEnter details of student " + (i + 1));
18
19             System.out.print(s: "USN: ");
20             String usn = sc.next();
21
22             System.out.print(s: "Name: ");
23             String name = sc.next();
24         }
25     }
26 }
```

```
PROJECT
  CIE
    Internals.class
    Internals.java 1
    Personal.class
    Personal.java
  SEE
    FinalMarks.class
    FinalMarks.java 1

FinalMarks.java > Language Support for Java(TM) by Red Hat > FinalMarks > main(String[])
5  public class FinalMarks {
6      public static void main(String[] args) {
7
8          System.out.print(s: "Semester: ");
9          int sem = sc.nextInt();
10
11          int[] internalMarks = new int[5];
12          System.out.println(x: "Enter 5 Internal Marks:");
13          for (int j = 0; j < 5; j++)
14              internalMarks[j] = sc.nextInt();
15
16          int[] seeMarks = new int[5];
17          System.out.println(x: "Enter 5 SEE Marks:");
18          for (int j = 0; j < 5; j++)
19              seeMarks[j] = sc.nextInt();
20
21          internal[i] = new Internals(internalMarks);
22          external[i] = new External(usn, name, sem, seeMarks);
23      }
24
25      System.out.println(x: "\n----- FINAL MARKS -----");
26 }
```

```
PROJECT
└─ CIE
   └─ Internals.class
   └─ Internals.java 1
   └─ Personal.class
   └─ Personal.java
   > SEE
   └─ FinalMarks.class
   └─ FinalMarks.java 1

FinalMarks.java > Language Support for Java(TM) by Red Hat > FinalMarks > main(String[])
5  public class FinalMarks {
6      public static void main(String[] args) {
42
43          for (int i = 0; i < n; i++) {
44              external[i].display();
45              System.out.println(x: "Final Marks in 5 Courses:");
46
47              for (int j = 0; j < 5; j++) {
48                  int finalMark = internal[i].internalMarks[j] + (external[i].seeMarks[j] / 2);
49                  System.out.println("Course " + (j + 1) + ": " + finalMark);
50              }
51              System.out.println();
52          }
53
54          sc.close();
55      }
56  }
57
```

Enter details of student 1

USN: 123

Name: XYZ

Semester: 3

Enter 5 Internal Marks:

24

25

19

29

10

Enter 5 SEE Marks:

60

70

80

90

87

----- FINAL MARKS -----

USN: 123

Name: XYZ

Semester: 3

Final Marks in 5 Courses:

Course 1: 54

Course 2: 60

Course 3: 59

Course 4: 74

Course 5: 53