```java
package CIE;

import java.util.Scanner;

public class Student {
    public String usn;
    public String name;
    public int sem;
    Scanner S1 = new Scanner(System.in);

    public void accept() {
        System.out.println("Enter the USN:");
        usn = S1.next();
        System.out.println("Enter the Name:");
        name = S1.next();
        System.out.println("Enter the Sem:");
        sem = S1.nextInt();
    }

    public void display() {
        System.out.println("Name: " + name);
        System.out.println("USN: " + usn);
        System.out.println("Sem: " + sem);
    }
}
```

```
(base) madhupandey@Madhus-MacBook-Air javalab % javac CIE/Internals.java
(base) madhupandey@Madhus-MacBook-Air javalab % javac SEE/Externals.java
(base) madhupandey@Madhus-MacBook-Air javalab % javac Final.java
(base) madhupandey@Madhus-MacBook-Air javalab % java Final
Enter the value of n
2
Enter the USN:
1BM22CS140
Enter the Name:
Madhu
Enter the Sem:
3
Enter Internal Marks for 5 courses out of 50:
Course 1: 49
Course 2: 50
Course 3: 48
Course 4: 47
Course 5: 46
Enter SEE Marks for 5 courses out of 50:
Course 1: 48
Course 2: 49
Course 3: 48
Course 4: 50
Course 5: 49
Name: Madhu
USN: 1BM22CS140
Sem: 3
Internal Marks: 49 50 48 47 46
SEE Marks: 48 49 48 50 49
Final Marks in Subject 1: 97
Final Marks in Subject 2: 99
Final Marks in Subject 3: 96
Final Marks in Subject 4: 97
Final Marks in Subject 5: 95
Enter the USN:
1BM22CS124
Enter the Name:
Riya
Enter the Sem:
3
Enter Internal Marks for 5 courses out of 50:
Course 1: 34
Course 2: 23
Course 3: 12
Course 4: 32
Course 5: 45
Enter SEE Marks for 5 courses out of 50:
```

```java
package CIE;

import java.util.Scanner;

public class Internals extends Student {
    public int[] internalMarks = new int[5];
    Scanner S1 = new Scanner(System.in);

    public void accept() {
        super.accept(); // Call the accept method from the parent class
to input basic details
        System.out.println("Enter Internal Marks for 5 courses out of
50:");
        for (int i = 0; i < 5; i++) {
            System.out.print("Course " + (i + 1) + ": ");
            internalMarks[i] = S1.nextInt();
        }
    }

    public void display() {
        super.display(); // Call the display method from the parent class
to show basic details
        System.out.print("Internal Marks: ");
        for (int i = 0; i < 5; i++) {
            System.out.print(internalMarks[i] + " ");
        }
        System.out.println();
    }
}
```

```
3
Enter Internal Marks for 5 courses out of 50:
Course 1: 49
Course 2: 50
Course 3: 48
Course 4: 47
Course 5: 46
Enter SEE Marks for 5 courses out of 50:
Course 1: 48
Course 2: 49
Course 3: 48
Course 4: 50
Course 5: 49
Name: Madhu
USN: 1BM22CS140
Sem: 3
Internal Marks: 49 50 48 47 46
SEE Marks: 48 49 48 50 49
Final Marks in Subject 1: 97
Final Marks in Subject 2: 99
Final Marks in Subject 3: 96
Final Marks in Subject 4: 97
Final Marks in Subject 5: 95
Enter the USN:
1BM22CS124
Enter the Name:
Riya
Enter the Sem:
3
Enter Internal Marks for 5 courses out of 50:
Course 1: 34
Course 2: 23
Course 3: 12
Course 4: 32
Course 5: 45
Enter SEE Marks for 5 courses out of 50:
Course 1: 43
Course 2: 27
Course 3: 35
Course 4: 41
Course 5: 32
Name: Riya
USN: 1BM22CS124
Sem: 3
Internal Marks: 34 23 12 32 45
SEE Marks: 43 27 35 41 32
Final Marks in Subject 1: 77
```

```java
package SEE;

import CIE.Student;

import java.util.Scanner;

public class Externals extends Student {
    public int[] seeMarks = new int[5];
    Scanner S1 = new Scanner(System.in);

    public void accept() {

        System.out.println("Enter SEE Marks for 5 courses out of 50:");
        for (int i = 0; i < 5; i++) {
            System.out.print("Course " + (i + 1) + ": ");
            seeMarks[i] = S1.nextInt();
        }
    }

    public void display() {

        System.out.print("SEE Marks: ");
        for (int i = 0; i < 5; i++) {
            System.out.print(seeMarks[i] + " ");
        }
        System.out.println();
    }
}
```

```
Course 4: 47
Course 5: 46
Enter SEE Marks for 5 courses out of 50:
Course 1: 48
Course 2: 49
Course 3: 48
Course 4: 50
Course 5: 49
Name: Madhu
USN: 1BM22CS140
Sem: 3
Internal Marks: 49 50 48 47 46
SEE Marks: 48 49 48 50 49
Final Marks in Subject 1: 97
Final Marks in Subject 2: 99
Final Marks in Subject 3: 96
Final Marks in Subject 4: 97
Final Marks in Subject 5: 95
Enter the USN:
1BM22CS124
Enter the Name:
Riya
Enter the Sem:
3
Enter Internal Marks for 5 courses out of 50:
Course 1: 34
Course 2: 23
Course 3: 12
Course 4: 32
Course 5: 45
Enter SEE Marks for 5 courses out of 50:
Course 1: 43
Course 2: 27
Course 3: 35
Course 4: 41
Course 5: 32
Name: Riya
USN: 1BM22CS124
Sem: 3
Internal Marks: 34 23 12 32 45
SEE Marks: 43 27 35 41 32
Final Marks in Subject 1: 77
Final Marks in Subject 2: 50
Final Marks in Subject 3: 47
Final Marks in Subject 4: 73
Final Marks in Subject 5: 77
(base) madhupandey@Madhus-MacBook-Air javalab % #‹
```

```java
import CIE.Student;
import CIE.Internals;
import SEE.Externals;

import java.util.Scanner;

public class Final {
    public static void main(String xx[]) {
        Scanner S1 = new Scanner(System.in);
        int n;
        System.out.println("Enter the value of n");
        n = S1.nextInt();

        CIE.Student S[] = new CIE.Student[n];
        CIE.Internals I[] = new CIE.Internals[n];
        SEE.Externals E[] = new SEE.Externals[n];

        for (int i = 0; i < n; i++) {
            S[i] = new CIE.Student();
            I[i] = new CIE.Internals();
            E[i] = new SEE.Externals();

            I[i].accept();
            E[i].accept();

            I[i].display();
            E[i].display();

            for (int j = 0; j < 5; j++) {
                int finalmarks = I[i].internalMarks[j] + E[i].seeMarks[j];
                System.out.println("Final Marks in Subject " + (j + 1) + ": " +
finalmarks);
            }
        }
    }
}
```

```
Course 4: 47
Course 5: 46
Enter SEE Marks for 5 courses out of 50:
Course 1: 48
Course 2: 49
Course 3: 48
Course 4: 50
Course 5: 49
Name: Madhu
USN: 1BM22CS140
Sem: 3
Internal Marks: 49 50 48 47 46
SEE Marks: 48 49 48 50 49
Final Marks in Subject 1: 97
Final Marks in Subject 2: 99
Final Marks in Subject 3: 96
Final Marks in Subject 4: 97
Final Marks in Subject 5: 95
Enter the USN:
1BM22CS124
Enter the Name:
Riya
Enter the Sem:
3
Enter Internal Marks for 5 courses out of 50:
Course 1: 34
Course 2: 23
Course 3: 12
Course 4: 32
Course 5: 45
Enter SEE Marks for 5 courses out of 50:
Course 1: 43
Course 2: 27
Course 3: 35
Course 4: 41
Course 5: 32
Name: Riya
USN: 1BM22CS124
Sem: 3
Internal Marks: 34 23 12 32 45
SEE Marks: 43 27 35 41 32
Final Marks in Subject 1: 77
Final Marks in Subject 2: 50
Final Marks in Subject 3: 47
Final Marks in Subject 4: 73
Final Marks in Subject 5: 77
(base) madhupandey@Madhus-MacBook-Air javalab % #‹
```