Student.java

```java
package CIE;

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

    public Student() {}

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

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

```java
package CIE;

import java.util.Scanner;

public class Internals extends Student {

    public int imarks[] = new int[5];
    Scanner sc = new Scanner(System.in);

    public void setImarks() {
        System.out.println("Enter 5 Internal Marks:");
        for (int i = 0; i < 5; i++) {
            imarks[i] = sc.nextInt();
        }
    }

    public void displayImarks() {
        System.out.println("Internal Marks:");
        for (int i = 0; i < 5; i++) {
            System.out.println("Subject " + (i + 1) + ": " + imarks[i]);
        }
    }
}
```

Externals.java

```java
package SEE;

import java.util.Scanner;

public class Externals extends CIE.Student {

    public int emarks[] = new int[5];
    Scanner sc = new Scanner(System.in);

    public void setEmarks() {
        System.out.println("Enter 5 External Marks:");
        for (int i = 0; i < 5; i++) {
            emarks[i] = sc.nextInt();
        }
    }

    public void displayEmarks() {
        System.out.println("External Marks:");
        for (int i = 0; i < 5; i++) {
            System.out.println("Subject " + (i + 1) + ": " + emarks[i]);
        }
    }
}
```

DemoMain.java

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

public class DemoMain {
    Run main | Debug main
    public static void main(String args[]) {

        int n, sem;
        String name, usn;

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter number of students: ");
        n = sc.nextInt();

        Student stds[] = new Student[n];
        Internals i[] = new Internals[n];
        Externals e[] = new Externals[n];

        for (int j = 0; j < n; j++) {

            System.out.println("\nEnter details of Student " + (j + 1) + ":");

            sc.nextLine();

            System.out.print("Student Name: ");
            name = sc.nextLine();

            System.out.print("USN: ");
            usn = sc.nextLine();

            System.out.print("Enter Semester: ");
            sem = sc.nextInt();

            stds[j] = new Student(usn, name, sem);
```

```java
            i[j] = new Internals();
            System.out.println("Enter Internal marks: ");
            i[j].setImarks();

            e[j] = new Externals();
            System.out.println("Enter External marks: ");
            e[j].setEmarks();
        }

        System.out.println("\n==================== Student Details ====================");
        for (int j = 0; j < n; j++) {
            System.out.println("\nStudent " + (j + 1) + " details: ");
            stds[j].displayDetails();

            System.out.println("Internal Marks:");
            i[j].displayImarks();

            System.out.println("External Marks:");
            e[j].displayEmarks();

            System.out.println("Total Marks:");
            for (int k = 0; k < 5; k++) {
                System.out.println("Subject " + (k + 1) + ": " + (i[j].imarks[k] + e[j].emarks[k]));
            }
        }
    }
}
```

Output

```
Enter number of students: 2

Enter details of Student 1:
Student Name: Vasanth
USN: 1BM24CS319
Enter Semester: 2
Enter Internal marks:
Enter 5 Internal Marks:
31
32
33
34
35
Enter External marks:
Enter 5 External Marks:
35
34
33
32
31

Enter details of Student 2:
Student Name: Arjuna
USN: 1ABAI320
Enter Semester: 41
Enter Internal marks:
Enter 5 Internal Marks:
42
53
45
44
46
```

```
Enter External marks:
Enter 5 External Marks:
65
45
59
57
52

==================== Student Details ====================

Student 1 details:
USN  : 1BM24CS319
Name : Vasanth
Sem  : 2
Internal Marks:
Internal Marks:
Subject 1: 31
Subject 2: 32
Subject 3: 33
Subject 4: 34
Subject 5: 35
External Marks:
External Marks:
Subject 1: 35
Subject 2: 34
Subject 3: 33
Subject 4: 32
Subject 5: 31
Total Marks:
Subject 1: 66
Subject 2: 66
Subject 3: 66
Subject 4: 66
Subject 5: 66
```

```
Student 2 details:
USN   : 1ABAI320
Name  : Arjuna
Sem   : 41
Internal Marks:
Internal Marks:
Subject 1: 42
Subject 2: 53
Subject 3: 45
Subject 4: 44
Subject 5: 46
External Marks:
External Marks:
Subject 1: 65
Subject 2: 45
Subject 3: 59
Subject 4: 57
Subject 5: 52
Total Marks:
Subject 1: 107
Subject 2: 98
Subject 3: 104
Subject 4: 101
Subject 5: 98
```