```java
package CIE;

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

    public Student() {}

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

    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(){
        for (int i=0;i<5;i++){
            imarks[i]=sc.nextInt();
        }
    }

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

```

```java
package SEE;

import java.util.Scanner;

public class External extends CIE.Student {
    public int emarks[] = new int[5];
    Scanner sc = new Scanner(System.in);

    public void setEmarks(){
        for (int i=0;i<5;i++){
            emarks[i]=sc.nextInt();
        }
    }

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

```java
import CIE.Student;
import CIE.Internals;
import SEE.External;
import java.util.Scanner;
public class Main {
    Run | Debug
    public static void main(String[] args) {
        int n,sem; String name,usn;
        System.out.println(x: "Enter number of students:");
        Scanner sc=new Scanner(System.in);
        n=sc.nextInt();
        Student stds[]=new Student[n];
        Internals i[]=new Internals[n];
        External e[]=new External[n];
        for(int j=0;j<n;j++){
            System.out.println("Enter Details of Student "+(j+1)+":");
            sc.nextLine();
            System.out.println(x: "Name:");
            name=sc.nextLine();
            System.out.println(x: "USN:");
            usn=sc.nextLine();
            System.out.println(x: "Enter Semester");
            sem=sc.nextInt();
            stds[j]=new Student(usn,name,sem);
            i[j]=new Internals();
            System.out.println(x: "Enter internal marks");
            i[j].setImarks();
            e[j]=new External();
            System.out.println(x: "Enter external marks");
            e[j].setEmarks();
        }
        for(int j=0;j<n;j++){
            System.out.println();
            System.out.println("Student "+(j+1)+" details:");
            stds[j].displayDetails();
            System.out.println(x: "Internal Marks:");
            i[j].displayImarks();
            System.out.println(x: "External Marks:");
            e[j].displayEmarks();
            System.out.println(x: "Total Marks :");
            for(int k=0;k<5;k++){
            System.out.println("Subject" +" "+ (k+1) + ": " +(i[j].imarks[k]+e[j].emarks[k]));
            }
        }
    }
}
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code

```
Enter number of students:
2
Enter Details of Student 1:
Name:
YASH KUMAR
USN:
1BM24CS336
Enter Semester
3
Enter internal marks
48
49
50
49
50
Enter external marks
50
49
50
49
48
Enter Details of Student 2:
Name:
YASHAS S
USN:
1BM24CS337
Enter Semester
3
Enter internal marks
45
49
47
46
50
Enter external marks
50
46
48
49
45
```

```
Student 1 details:
USN: YASH KUMAR
Name: 1BM24CS336
Sem: 3
Internal Marks:
Subject 1: 48
Subject 2: 49
Subject 3: 50
Subject 4: 49
Subject 5: 50
External Marks:
Subject 1: 50
Subject 2: 49
Subject 3: 50
Subject 4: 49
Subject 5: 48
Total Marks :
Subject 1: 98
Subject 2: 98
Subject 3: 100
Subject 4: 98
Subject 5: 98

Student 2 details:
USN: YASHAS S
Name: 1BM24CS337
Sem: 3
Internal Marks:
Subject 1: 45
Subject 2: 49
Subject 3: 47
Subject 4: 46
Subject 5: 50
External Marks:
Subject 1: 50
Subject 2: 46
Subject 3: 48
Subject 4: 49
Subject 5: 45
Total Marks :
Subject 1: 95
Subject 2: 95
Subject 3: 95
Subject 4: 95
Subject 5: 95
```