

```
package CIE;
```

```
public class Personal
```

```
{
```

```
    protected String usn;
```

```
    protected String name;
```

```
    protected int sem;
```

```
    public Personal (String usn, String name, int sem)
```

```
{
```

```
        this.usn = usn;
```

```
        this.name = name;
```

```
        this.sem = sem;
```

```
}
```

```
    public void displayPersonalInfo()
```

```
{
```

```
        System.out.println("usn: " + usn);
```

```

system.out.println("Name : ");
system.out.println("Semester : " + sem);

```

```

package CIE;

```

```

import java.util.Scanner;

```

```

public class Enternals extends Student

```

```

{
    protected int marks[] = new int[5];
    public void input CIE marks()

```

```

{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter internal marks for 5 courses");

```

```

    for (int i=0; i<5; i++)

```

```

    {
        System.out.println("Courses: " + (i+1) + " ");
        marks[i] = sc.nextInt();

```

```

    }
    public void display CIE marks()

```

```

{
    System.out.println("Internal marks: ");

```

```

    for (int i=0; i<5; i++)

```

```

    {
        System.out.println("Courses: " + (i+1) + " marks[" + i + "]");

```

```

package CIE;

```

```

import CIE.internals;

```

```

import java.util.Scanner;

```

```

public class Enternals extends Internals

```

```

{

```

```

{
    protected int externalMarks[] = new int[5];
    protected int finalMarks[] = new int[5];
    public Enternals()

```

```

{
    externalMarks = new int[5];
    finalMarks = new int[5];

```

```

    public void input SEEmarks()

```

```

{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter external marks");
    for (int i=0; i<5; i++)

```

```

    {
        System.out.println("Course " + (i+1) + " : " + "Final Marks[" + i + "]");

```

```

    }
    import SEE Enternals;
    import java.util.*;
    public class Main

```

```

{
    public static void main (String args[])

```

```

{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter no. of student");
    int n = sc.nextInt();
    Enternals[] student = new Enternals[n];

```

```

    for (int i=0; i<n; i++)

```

```

    {
        student[i] = new Enternals();
        student[i].input Student Details ();
        student[i].input CIE marks ();
        student[i].input SEE marks ();
        student[i].calculate FinalMarks ();

```



for (i = 0; i < n; i++)

<sup>d</sup>  
Students[i].displayFinalMarks();

y  
y  
y

```
C:\Users\STUDENT\Desktop\cse>javac Main.java
```

```
C:\Users\STUDENT\Desktop\cse>java Main
```

```
Enter number of students: 2
```

```
Enter USN: 1BM23CS090
```

```
Enter Name: DHARUNYA
```

```
Enter Semester: 2
```

```
Enter Internal Marks for 5 courses:
```

```
Course 1: 90
```

```
Course 2: 98
```

```
Course 3: 89
```

```
Course 4: 88
```

```
Course 5: 97
```

```
Enter External Marks for 5 courses:
```

```
Course 1: 99
```

```
Course 2: 97
```

```
Course 3: 96
```

```
Course 4: 95
```

```
Course 5: 92
```

```
Enter USN: 1BM23CS001
```

```
Enter Name: XYZ
```

```
Enter Semester: 2
```

```
Enter Internal Marks for 5 courses:
```

```
Course 1: 78
```

```
Course 2: 89
```

```
Course 3: 87
```

```
Course 4: 67
```

```
Course 5: 77
```

```
Enter External Marks for 5 courses:
```

```
Course 1: 90
```

```
Course 2: 98
```

```
Course 3: 78
```

```
Course 4: 68
```

```
Course 5: 66
```

```
USN: 1BM23CS090
```

```
Name: DHARUNYA
```

```
Semester: 2
```

```
Internal Marks:
```

```
Course 1: 90
```

```
Course 2: 98
```

```
Course 3: 89
```

```
Course 4: 88
```

```
Course 5: 97
```

```
External Marks:
```

```
Course 1: 99
```

```
Course 2: 97
```

```
Course 3: 96
```

```
Course 4: 95
```

```
Course 5: 92
```

```
Final Marks:
```

C:\Windows\System32\cmd.exe X

+

Course 4: 68  
Course 5: 66  
USN: 1BM23CS090  
Name: DHARUNYA  
Semester: 2

Internal Marks:

Course 1: 90

Course 2: 98

Course 3: 89

Course 4: 88

Course 5: 97

External Marks:

Course 1: 99

Course 2: 97

Course 3: 96

Course 4: 95

Course 5: 92

Final Marks:

Course 1: 189

Course 2: 195

Course 3: 185

Course 4: 183

Course 5: 189

---

USN: 1BM23CS001

Name: XYZ

Semester: 2

Internal Marks:

Course 1: 78

Course 2: 89

Course 3: 87

Course 4: 87

Course 5: 77

External Marks:

Course 1: 90

Course 2: 98

Course 3: 78

Course 4: 68

Course 5: 66

Final Marks:

Course 1: 168

Course 2: 187

Course 3: 165

Course 4: 135

Course 5: 143

---

C:\Users\STUDENT\Desktop\cse4