Code:

Pkg CIE:

```java
1    package CIE;
2    import java.util.Scanner;
3
4
5    public class internals extends student
6    {
7
8        public int cieMarks[]=new int[5];
9        Scanner get = new Scanner(System.in);
10       public void getCieMarks()
11       {
12           System.out.printf("\n Enter the CIE Marks(out of 50) obtained in 5 courses : ");
13           for(int i=0;i<5;i++)
14               cieMarks[i]=get.nextInt();
15       }
16   }
```

```java
1    package CIE;
2    import java.util.Scanner;
3
4    public class student
5    {
6        Scanner get = new Scanner(System.in);
7        String usn,name;
8        int sem;
9        public void getStudentInfo()
10       {
11           System.out.printf("\n\n <----Enter the Student Details----> ");
12           System.out.printf("\n USN: ");usn=get.next();
13           System.out.printf(" Name: ");name=get.next();
14           System.out.printf(" Sem Number: ");sem=get.nextInt();
15
16       }
17       public void displayStudent()
18       {
19           System.out.printf("\n\n <----Student Details----> ");
20           System.out.printf("\n USN: %s",usn);
21           System.out.printf("\n Name: %s",name);
22           System.out.printf("\n Sem Number: %d",sem);
23
24       }
25   }
```

Pkg SEE:

```java
1    package SEE;
2    import java.util.Scanner;
3
4    public class externals extends CIE.student
5    {
6
7        public int seeMarks[]=new int[5];
8        Scanner get = new Scanner(System.in);
9        public void getSeeMarks()
10       {
11           System.out.printf("\n Enter the SEE Marks(out of 100) obtained in 5 courses : ");
12           for(int i=0;i<5;i++)
13               seeMarks[i]=get.nextInt();
14       }
15   }
```

Main Program:

```java
import CIE.*;
import SEE.*;
import java.util.Scanner;

class finalMarks
{
    public static void main(String[] args)
    {
        int n;
        CIE.internals i[];
        SEE.externals e[];
        Scanner get = new Scanner(System.in);
        System.out.printf("\n Enter the number of Students :  ");
        n=get.nextInt();
        i=new CIE.internals[n];
        e=new SEE.externals[n];
        for (int k=0;k<n;k++ )
        {
            i[k]=new CIE.internals();
            i[k].getStudentInfo();
            i[k].getCieMarks();
            e[k]=new SEE.externals();
            e[k].getSeeMarks();

        }
        for (int k=0;k<n;k++)
        {
            i[k].displayStudent();
            System.out.printf("\n Final Marks for 5 courses : ");
            for (int l=0;l<5;l++)
            {
                System.out.printf("\n\t Course %d : %.2f ",(l+1),(i[k].cieMarks[l]+((e[k].seeMarks[l])*.5)));
            }
            System.out.printf("\n <----x----> ");
        }

    }
}
```

Output:

```
Enter the number of Students :  2

<----Enter the Student Details---->
USN: 1bm19cs008
Name: john
Sem Number: 3

Enter the CIE Marks(out of 50) obtained in 5 courses : 30 30 49 24 48

Enter the SEE Marks(out of 100) obtained in 5 courses : 98 78 67 90 23


<----Enter the Student Details---->
USN: 1bm19cs878
Name: micheal
Sem Number: 3

Enter the CIE Marks(out of 50) obtained in 5 courses : 45
34
34
53
23

Enter the SEE Marks(out of 100) obtained in 5 courses : 90 90 78 98 67


<----Student Details---->
USN: 1bm19cs008
Name: john
Sem Number: 3
Final Marks for 5 courses :
        Course 1 : 79.00
        Course 2 : 69.00
        Course 3 : 82.50
        Course 4 : 69.00
        Course 5 : 59.50
<----x---->

<----Student Details---->
USN: 1bm19cs878
Name: micheal
Sem Number: 3
Final Marks for 5 courses :
        Course 1 : 90.00
        Course 2 : 79.00
```

```
        Course 2 : 79.00
        Course 3 : 73.00
        Course 4 : 102.00
        Course 5 : 56.50
<----x---->
```