

Student.java :

```
package CIE;

public class Student {
    public String usn,name;
    public int sem;
}
```

Internals.java :

```
package CIE;

public class Internals extends Student {
    public int marks[]=new int[5];
}
```

External.java :

```
package SEE;

public class External extends CIE.Student {
    public int marks[] = new int[5];
}
```

DriverClass :

```
import CIE.*;
import SEE.*;
import java.util.Scanner;
public class driverclass {
    public static void main(String args[])
    {
        Scanner scr = new Scanner(System.in);
        System.out.println("Enter the number of students : ");
        int n = scr.nextInt();
        CIE.Internals m1[] = new CIE.Internals[n];
        SEE.External m2[] = new SEE.External[n];
        for(int i =0;i<n;i++)
        {
            m1[i] = new CIE.Internals();
            m2[i] = new SEE.External();
            System.out.println("Enter name of student : ");
            m1[i].name=scr.next();
            m2[i].name=m1[i].name;
            for(int j=0;j<5;j++)
            {
                System.out.println("Enter cie marks in subject "+(j+1));
                m1[i].marks[j]=scr.nextInt();
                System.out.println("Enter see marks in subject "+(j+1));
                m2[i].marks[j]=scr.nextInt();
            }
        }
        for(int i=0;i<n;i++)
        {
            System.out.println("\nStudent "+(i+1)+"\nName : "+m1[i].name+"\n\nCIE :");
            for(int j=0;j<5;j++)
```

```

        {
            System.out.println(m1[i].marks[j]);
        }
        System.out.println("\nSEE");
        for(int j=0;j<5;j++)
        {
            System.out.println(m2[i].marks[j]);
        }

        System.out.println("\nFinal : ");
        for(int j=0;j<5;j++)
        {
            System.out.println((m2[i].marks[j]/2)+m1[i].marks[j]);
        }
    }
}

```

OUTPUT :

```

Enter the number of students :
2
Enter name of student :
abc
Enter cie marks in subject 1
45
Enter see marks in subject 1
90
Enter cie marks in subject 2
46
Enter see marks in subject 2
92
Enter cie marks in subject 3
47
Enter see marks in subject 3
94
Enter cie marks in subject 4
48
Enter see marks in subject 4
95
Enter cie marks in subject 5
49
Enter see marks in subject 5
98
Enter name of student :
cde
Enter cie marks in subject 1
47
Enter see marks in subject 1
97

```

2)

```
Enter cie marks in subject 2
46
Enter see marks in subject 2
94
Enter cie marks in subject 3
48
Enter see marks in subject 3
96
Enter cie marks in subject 4
48
Enter see marks in subject 4
90
Enter cie marks in subject 5
48
Enter see marks in subject 5
94
```

```
Student 1
Name : abc
```

```
CIE :
45
46
47
48
49
```

3)

```
SEE
90
92
94
95
98
```

```
Final :
90
92
94
95
98
```

```
Student 2
Name : cde
```

```
CIE :
47
46
48
48
48
```

```
SEE
97
94
96
90
94
```

4)

Final :

95

93

96

93

95