

Program 6:

```

package CIE;
import java.util.Scanner;
public class Internals extends student
{
    public int cieMarks[] = new int[5];
    Scanner get = new Scanner(System.in);
    public void getCieMarks()
    {
        System.out.println("Enter CIE marks of 50 obtained in 5 courses:");
        for(int i=0;i<5;i++)
            cieMarks[i]=get.nextInt();
    }
}

```

```

package CIE;
import java.util.Scanner;
public class student
{
    Scanner got = new Scanner(System.in);
    String usn, name;
    int sem;
    public void getStudentInfo()
    {
        System.out.print("Enter the student Details-->");
        System.out.print("USN: "); usn = got.next();
        System.out.print("Name: "); name = got.next();
        System.out.print("Sem Number: "); sem = got.nextInt();
    }
}

```

```
public void displayStudent()
{
    System.out.printf("Inn <-- student details -->");
    System.out.printf("In USN: %d", usn);
    System.out.printf("In Name: %s", name);
    System.out.printf("In Sem Number: %d", sem);
}
```

```
package SEE;
import java.util.Scanner;
public class External extends CIE.Student
{
    public int seeMarks[] = new int[5];
    Scanner get = new Scanner(System.in);
    public void setSeeMarks()
    {
        System.out.println("Enter SEE marks(Out of 100) obtained in 5 courses:");
        for (int i = 0; i < 5; i++)
            seeMarks[i] = get.nextInt();
    }
}
```

```
import CIE.*;
import SEE.*;
import java.util.Scanner;
class FinalMarks
{
    public static void main (String [] args)
    {
        int n;
        CIE.Internal i[];
        SEE.External e[];
        Scanner get = new Scanner(System.in);
```

```

System.out.printf("Enter the No. of students");
n = get.nextInt();
i = new CIE.internal[n];
e = new SEE.external[n];
for (int k=0; k<n; k++) {
    i[k] = new CIE.internal();
    i[k].getStudentInfo();
    i[k].getcieMarks();
    e[k] = new SEE.external();
    e[k].getseemarks();
}
for (int k=0; k<n; k++) {
    i[k].displayStudent();
    System.out.printf("Final Marks for %s course : ", k+1);
    for (int l=0; l<5; l++) {
        System.out.printf("%s course %d: %d ", l+1, i[k].cieMarks[l] + ((e[k].seemarks[l]) * 5));
    }
}
}

```

Procedure:

- * created CIE, SEE folder.
- * In their parent directory, all the java files were created & compiled.
- * The resulting bytecode (class files) were moved to respective package folders.
- * The FinalMarks class is executed.