Create a package CIE which has two classes- Student and Internals- a subclass of Student. The class Student has members like usn, name, sem. The class internals has an array that stores the internal marks scored in five courses of the current semester of the student. Create another package SEE which has the class External which is a derived class of Internals. This class has an array that stores the SEE marks scored in five courses of the current semester of the student. Import the two packages in a file that declares the final marks of n students in all five courses.

//CIE Student class implement

```
package cie; import
java.util.*;
               public
class student
{
  Scanner sc=new Scanner(System.in);
public String usn,name;
                         public int sem;
public void accept()
        System.out.println("Enter USN, Name and Current semester: ");
usn=sc.nextLine();
       name=sc.nextLine();
sem=sc.nextInt();
       }
public void display()
       {
       System.out.println("\nStudent Details");
     System.out.println("Name: "+name);
       System.out.println("USN: "+usn);
       System.out.println("Semester: "+sem);
       }
}
```

//CIE Internals Class implement

```
package cie; import java.util.*; public class
internals extends cie.student
{
  Scanner sc=new Scanner(System.in);
public int ciem[]=new int[5];    public void
accept()
   {
         int i;
for(i=0;i<5;i++)
     {
           System.out.println("Enter CIE marks of subject "+(i+1));
        ciem[i]=sc.nextInt();
    }
   }
//SEE class implement
package see; import cie.*; import java.util.*;
public class externals extends cie.student
{
Scanner sc=new Scanner(System.in);
public int seem[]=new int[5]; public
void accept()
   {
         for(int
i=0; i<5; i++)
     {
       System.out.println("Enter SEE marks of subject "+(i+1));
seem[i]=sc.nextInt();
   }
```

```
import cie.*; import
see.*; import
java.util.*; class
packages
 public static void main(String args[])
        int
i,j,n;
     Scanner sc=new Scanner(System.in);
     int total[]=new int[5];
     System.out.println("Enter number of students: ");
n=sc.nextInt();
                    cie.student s[]=new cie.student[n];
cie.internals ci[]=new cie.internals[n];
                                            see.externals
se[]=new see.externals[n];
                                for(i=0;i<n;i++)
     {
       System.out.println("\nEnter student "+(i+1)+" details");
s[i]=new cie.student();
                               s[i].accept();
                                                    ci[i]=new
cie.internals();
                       ci[i].accept();
                                             se[i]=new
                       se[i].accept();
see.externals();
     }
     for(i=0;i<n;i++)
     {
       System.out.println("\nDetails of student "+(i+1));
s[i].display();
                      for(j=0;j<5;j++)
       {
total[j]=ci[i].ciem[j]+se[i].seem[j];
          System.out.println("Total marks in subject "+(j+1)+": "+total[j]);
       }
```

```
System.out.println();
}
}
```

```
Enter number of students:
Enter student 1 details
Enter USN, Name and Current semester:
0210
Kabir
Enter CIE marks of subject 1
Enter CIE marks of subject 2
36
Enter CIE marks of subject 3
Enter CIE marks of subject 4
30
Enter CIE marks of subject 5
Enter SEE marks of subject 1
80
Enter SEE marks of subject 2
Enter SEE marks of subject 3
Enter SEE marks of subject 4
oy
Enter SEE marks of subject 5
90
Enter student 2 details
Enter USN, Name and Current semester:
0215
Karan
3
Enter CIE marks of subject 1
Enter CIE marks of subject 2
Enter CIE marks of subject 3
27
Enter CIE marks of subject 4
Enter CIE marks of subject 5
35
Enter SEE marks of subject 1
```

```
Enter student 2 details
Enter USN, Name and Current semester:
0215
Karan
Enter CIE marks of subject 1
Enter CIE marks of subject 2
Enter CIE marks of subject 3
Enter CIE marks of subject 4
Enter CIE marks of subject 5
Enter SEE marks of subject 1
Enter SEE marks of subject 2
Enter SEE marks of subject 3
91
Enter SEE marks of subject 4
79
Enter SEE marks of subject 5
Details of student 1
Student Details
Name: Kabir
USN: 0210
JSN: 0210
Semester: 3
Iotal marks in subject 1: 115
Iotal marks in subject 2: 122
Iotal marks in subject 3: 125
Iotal marks in subject 4: 119
Iotal marks in subject 5: 128
Details of student 2
Student Details
Name: Karan
USN: 0215
JSN: 0215
Semester: 3
Iotal marks in subject 1: 111
Iotal marks in subject 2: 109
Iotal marks in subject 3: 118
Iotal marks in subject 4: 109
Iotal marks in subject 5: 125
C:\Users\STUDENT\Desktop\1bm1cs034\packg>
```