6) Create a package CIE which has two classes - Student and Internals. The class personal has members like USn, name, sem. The class internals has an array that store the internal marks stored in 5 courses of the current semester of the student. Create another package SEE which has the External which is a derived of Student. This class has an array that store the SEE marks stored in 5 courses of the current sem of the student. Import the two packages in a file that declares the final marks of a students in all five courses.

→ **Student class**

Package CIE ;

    public class Student {
      String name;
      int usn;
      int sem;

      public Student (String name, int usn, int sem) {
        this.name = name;
        this.Usn = usn;
        this.sem = sem;
      }
    }

Internals class

package CIE

public class Internals extends student {

```java
public int marks () = new int[5];

public internals (String name, int usn, int sem, int[] marks)
{
    super (name, usn, sem);
    this.marks = marks;
}
}
```

External class

```java
package SEE;
import CIE.Student;

public class externals extends student {

    public int smarks [] = new int[5];

    public externals (String name, int usn, int sem, int[] marks)
    {
        super (name, usn, sem);
        this.smarks = marks;
    }
}
```

testing class

```java
import CIE.internals;
import SEE.externals;
import java.util.Scanner;

public class tyt {
    p svm (string [] args) {
```

```java
Scanner sc = new Scanner (System.in);

int cmar[] = new int[6];
int smar[] = new int[5];
sout
sout ("enter num of student");
int n = sc.nextInt();
for (int k=0; k<n; k++)
{
    sout ("Enter name");
    String name = sc.next();
    sout (" Enter Usn");
    int usn = sc.nextInt();
    sout ("Enter sem");
    int sem = sc.nextInt();

    sout ("Enter cie marks");

    for (int i=0; i<s; i++)
    {
        cmarks[i] = sc.nextInt();
    }
    sout ("Enter the see marks");

    for (int i=0; i<s; i++)
    {
        Smarks[i] = sc.nextInt();
    }


    Internal o1 = new Internal (name, usn, sem, cmark);
    external o2 = new External (name, usn, sem, sm);


    for (int i=1; i<s; i++)
    {
```

```
System.out.println (" The total mark of student in subj
System.out.println (01.marks[i-1] + 02.marks[i-1]);
      }}
   }
}
```

Output

enter the num of student

1

enter the name of student

sourath

Enter the usn of student

123

Enter the sem of student

1

Enter the cie marks of 5 subjects

45
46
47
43
48

enter the see marks of 5 subjects

45
46
45
48
47

The total marks of student in sub 1
90

The total marks of student in sub 2
92

The total mark of student in sub 3
92

The total mark of student in sub 4
88

The total mark of student in sub 5
95

27/11/24

```java
import CIE.internals;
import SEE.externals;
import java.util.Scanner;

public class test{
    public static void main(String [] args){

        Scanner sc = new Scanner(System.in);

        int cmarks [] = new int[5];
        int smarks [] = new int[5];
        System.out.println("enter the num of students");
        int n = sc.nextInt();
for(int k=0;k<n;k++){

         System.out.println("enter the name of the student");
        String name = sc.next();
        System.out.println("enter the usn of the student");
        int usn = sc.nextInt();
        System.out.println("enter the sem of the student");
        int sem = sc.nextInt();


        System.out.println(" enter the cie marks of 5 subjects");

        for(int i=0;i<5;i++){
            cmarks[i] = sc.nextInt();
        }

        System.out.println(" enter the see marks of 5 subjects");

        for(int i=0;i<5;i++){
            smarks[i] = sc.nextInt();
        }




        internals o1 = new internals(name,usn,sem,cmarks);
        externals o2 = new externals(name,usn,sem,smarks);


        for(int i=1;i<=5;i++){
```

```java
        for(int i=1;i<=5;i++){
            System.out.println("the total marks of student in sub" + i);

            System.out.println(o1.marks[i-1] + o2.smarks[i-1]);

        }}
    }
}
```

```java
package CIE;

public class internals extends Student {

    public int marks [] = new int [5];

    public internals(String name,int usn,int sem,int [] marks){
        super(name,usn,sem);
        this.marks= marks;
    }
}
```

```
package SEE;
import CIE.Student;


public class externals extends Student{
    public int smarks [] = new int[5];

    public externals(String name,int usn,int sem,int [] marks){
        super(name,usn,sem);
        this.smarks= marks;
    }
}
```

```java
package CIE;


    public class Student{

        String name;
        int usn;
        int sem;


        public Student(String name,int usn,int sem){
            this.name= name;
            this.usn = usn;
            this.sem = sem;

        }


    }
```

```
C:\Users\shett\OneDrive\Documents\javaclasslab>javac test.java

C:\Users\shett\OneDrive\Documents\javaclasslab>java test
enter the num of students
1
enter the name of the student
virat
enter the usn of the student
234
enter the sem of the student
1
 enter the cie marks of 5 subjects
45
50
45
46
47
 enter the see marks of 5 subjects
45
46
47
48
43
the total marks of student in sub1
90
the total marks of student in sub2
96
the total marks of student in sub3
92
the total marks of student in sub4
94
the total marks of student in sub5
90

C:\Users\shett\OneDrive\Documents\javaclasslab>
```