

- Q. Create a package CIE which has two classes - Student and Internal. Import the two packages in a file that declares final marks of a student in all 5 courses.

CODE: Student.java

```
package CIE;
import java.util.Scanner;
public class Student
{
    public String usn, name;
    public int sem;
    public void accept ()
    {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Please enter your USN");
        usn = sc.nextLine ();
        System.out.println ("Please enter your name!");
        name = sc.nextLine ();
        System.out.println ("Please enter your semester!");
        sem = sc.nextInt ();
    }
}
```

Internals.java

```
import java.util.Scanner;
public class Internals extends CIE.Student
{
    public int[] int_marks = new int[5];
    Scanner sc = new Scanner(System.in);
    public void input()
    {
        for(int i=0; i<5; i++)
        {
            System.out.println("Please enter your cie marks  
in course:");
            int_marks[i] = sc.nextInt();
        }
    }
}
```

SEE Package :-

External.java

```
package SEE;
import CIE.X;
import java.util.Scanner;
public class External extends Student
{
```

```
    public int see_marks[] = new int[5];
    public void input()
    {
```

```
        Scanner sc = new Scanner(System.in);
        for(int i=0; i<5; i++)
        {
```

```
            System.out.println("Please enter SEE marks  
in course "+(i+1)+":");
            see_marks[i] = sc.nextInt();
        }
    }
}
```


In Folder:-

Result.java

```
import CIE.*;
import SEE.*;
import java.util.Scanner;
public class Result
{
    public static void main (String Args[])
    {
        int n;
        Scanner sc = new Scanner (System.in);
        System.out.println ("Please enter the number of
        students whose final marks are to be computed");
        n = sc.nextInt();
        CIE.Student s1[] = new CIE.Student[n];
        CIE.Internals i1[] = new CIE.Internals[n];
        SEE.External e1[] = new SEE.External[n];
        for (int i=0; i<n; i++)
        {
            System.out.println ("Please enter details of
            Student "+(i+1) + ":");
            s1[i] = new CIE.Student();
            s1[i].accept();
            i1[i] = new CIE.Internals();
            i1[i].input();
            e1[i] = new SEE.External();
            e1[i].input();
            System.out.println ("Final mark for student "+
            (i+1));
            for (int j=0; j<5; j++)
            {
                System.out.println ("mark in course "+(j+1) + ":")
                + (s1[i].int-marks[j] + (e1[i].see-marks[j])
            }
        }
    }
}
```