

Week 9

Lab-program -6 :

CIE package :

Student class :

```
package cie ;
import java.util.Scanner ;
public class Student
{
    public String usn ;
    public String name ;
    public int sem ;

    public void getData()
    {
        Scanner sc = new Scanner(System.in) ;
        System.out.println("Enter name : ") ;
        name = sc.next() ;
        System.out.println("Enter usn : ") ;
        usn = sc.next() ;
        System.out.println("Enter sem : ") ;
        sem = sc.nextInt() ;
    }
}
```

Internals class :

```
package cie ;
import java.util.Scanner;

public class Internals extends cie.Student
{
    public float [] cie-marks = new float [5];

    public void getdata ()
    {
        Scanner sc = new Scanner (System.in);
        System.out.println("Enter CIE marks :");
        for (int i=0; i<5; i++)
        {
            System.out.println("Enter marks in sub " + (i+1) + "(out of 50) :");
            cie-marks [i] = sc.nextFloat();
        }
    }
}
```

Package see :

```
package see ;
import cie.*;
import java.util.Scanner;

public class Externals extends cie.Student
{
    public float [] see-marks = new float [5];

    public void getdata ()
    {
        Scanner sc = new Scanner (System.in);
        System.out.println("Enter SEE marks : (out of 100)");
        for (int i=0; i<5; i++)
        {
            System.out.println("Enter marks in subject " + (i+1) + " :");
            see-marks [i] = sc.nextFloat();
        }
    }
}
```

Driver class StudentMarks:

```
import cie.*;  
import sce.*;  
import java.util.Scanner;  
public class StudentMarks  
{
```

```
    public static void main(String[] args)
```

```
    {  
        int n, i, j;
```

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

```
        System.out.println("Enter number of students:");
```

```
        n = sc.nextInt();
```

```
        cie.Student[] s = new cie.Student[n];
```

```
        cie.Internal[] io = new cie.Internal[n];
```

```
        sce.External[] e = new sce.External[n];
```

```
        float [][] final_marks = new float[n][5];
```

```
        for(i=0; i<n; i++)
```

```
        {
```

```
            s[i] = new cie.Student();
```

```
            io[i] = new cie.Internal();
```

```
            e[i] = new sce.External();
```

```
            System.out.println("Enter student details:");
```

```
            s[i].getdata();
```

```
            io[i].getdata();
```

```
            e[i].getdata();
```

```
        }
```

```
        System.out.println("Student details:");
```

```
        for(i=0; i<n; i++)
```

```
        {  
            System.out.println("Name: " + s[i].name + " \n Usn: " + s[i].usn +  
                                " \n Sem: " + s[i].sem + " \n Final Marks: " );
```

```
            for(j=0; j<5; j++)
```

```
            {  
                final_marks[i][j] = io[i].cie_marks[j] + (e[i].sce_marks[j]/2);
```

```
                System.out.println("Sub " + (j+1) + ": " + final_marks[i][j]);
```

```
            }
```

```
        }
```