

WEEK9

LAB PROGRAM 6:

Code:

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 subject "+(i+1)+"(out of 50):");

            cie_marks[i]=sc.nextFloat();
        }
    }
}
```

PACKAGE EXTERNALS:**See class:**

```
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 StudentMain:

```

import cie.*;

import see.*;

import java.util.Scanner;

public class StudentMain
{
    public static void main(String args[])
    {
        int n,i,j;

        Scanner sc=new Scanner(System.in);

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

        n=sc.nextInt();

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

        cie.Internals[] io=new cie.Internals[n];

        see.Externals[] e=new see.Externals[n];
    }
}

```

```

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

for(i=0;i<n;i++)
{
    s[i]=new cie.Student();

    io[i]=new cie.Internals();

    e[i]=new see.Externals();

    System.out.println("Enter Student details of student
"+(i+1)+" :\n-----");

    s[i].getdata();

    io[i].getdata();

    e[i].getdata();

}

System.out.println("Student details:\n*****");

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

    System.out.println("NAME:"+s[i].name+"\nUSN:"+s[i].usn+"\nSEM:"+s[i].sem+"\nFINAL
MARKS:");

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

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

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

    }

    System.out.println("-----");

}

}

}

```

OUTPUT:

```
C:\Users\misaf\Desktop\OOJ-LAB\Week9>j
C:\Users\misaf\Desktop\OOJ-LAB\Week9>j
Enter the number of students:
2
Enter Student details of student 1:
-----
Enter name:
saf
Enter usn:
1
Enter sem:
3
Enter CIE marks:
Enter marks in subject 1(out of 50):
30
Enter marks in subject 2(out of 50):
40
Enter marks in subject 3(out of 50):
36
Enter marks in subject 4(out of 50):
29
Enter marks in subject 5(out of 50):
39
Enter SEE marks:(out of 100)
Enter marks in subject 1:
87
Enter marks in subject 2:
80
```

```
Enter marks in subject 3:
78
Enter marks in subject 4:
99
Enter marks in subject 5:
100
Enter Student details of student 2:
-----
Enter name:
jake
Enter usn:
4
Enter sem:
3
Enter CIE marks:
Enter marks in subject 1(out of 50):
34
Enter marks in subject 2(out of 50):
36
Enter marks in subject 3(out of 50):
45.5
Enter marks in subject 4(out of 50):
50
Enter marks in subject 5(out of 50):
41
Enter SEE marks:(out of 100)
Enter marks in subject 1:
78
Enter marks in subject 2:
99
```

Enter marks in subject 3:

67

Enter marks in subject 4:

78

Enter marks in subject 5:

95

Student details:

NAME:saf

USN:1

SEM:3

FINAL MARKS:

Subject1: 73.5

Subject2: 80.0

Subject3: 75.0

Subject4: 78.5

Subject5: 89.0

NAME:jake

USN:4

SEM:3

FINAL MARKS:

Subject1: 73.0

Subject2: 85.5

Subject3: 79.0

Subject4: 89.0

Subject5: 88.5
