

lab 5)

Student.java

package ~~java~~ CIE;

import java.util.Scanner;

20 public class Student

{ public String usn;

public String name;

public ~~String~~ int sem;

Scanner s = new Scanner(System.in);

25 public void accept()

{

System.out.println("Enter usn:");

usn = s.next();

System.out.println("Enter name:");

30 name = s.next();

System.out.println("Enter the semester:");

sem = s.nextInt();

}

< public void display()

{

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```
System.out.println("Uon : "+uon);  
System.out.println("Name : "+name);  
System.out.println("Semester : "+sem);
```

Internals.java-

```
package CIE;  
import java.util.Scanner;  
public class Internals extends Student
```

```
Scanner s=new Scanner(System.in);  
public int[] cie-marks=new int[5];  
public int i;  
public void accept-cie()
```

```
{  
    System.out.println("Enter the cie marks  
    for five subjects");  
    for (i=0; i<5; i++)  
    {  
        cie-marks[i]=s.nextInt();
```

External.java-

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

```
{  
    public int[] see-marks=new int[5];  
    public int i;
```

```
Scanner S=new Scanner(System.in);  
public void accept-see()
```

```
{  
    System.out.println("Enter the see  
    marks for five subjects:");  
    for (i=0; i<5; i++)
```



```

    < see-marks[i] = s.nextInt();
  }
}

```

Final.java -

```

import CIE.*;
import SEE.*;
import java.util.Scanner;
public class Final

```

```

{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);
        int i, j;
        System.out.println("Enter the number of students:");
        n = s.nextInt();
        CIE.Internals[] in = new CIE.Internals[n];
        SEE.Externals[] ex = new SEE.Externals[n];
        for (i=0; i<n; i++)
        {
            in[i] = new CIE.Internals();
            ex[i] = new SEE.Externals();
            in[i].accept();
            in[i].accept-cie();
            ex[i].accept-see();
        }
        for (i=0; i<n; i++)
        {
            in[i].display();
            for (j=0; j<5; j++)
            {
                System.out.println("Final marks in Subject "+(j+1)+" : "+ (in[i].cie-marks[j] + (ex[i].see-marks[j])/2));
            }
            System.out.println();
        }
    }
}

```


→ Procedure-

- 1) Create a folder named myPacks
- 2) Inside ~~that~~ ^{myPacks} folder create another two folders CIE and SEE which are the names of the two packages.
- 3) Inside myPacks folder save the Student.java file, Internals.java file, External.java file and the driver class in a file named Final.java
- 4) First compile Student class using the command
javac Student.java
- 5) Then ~~place~~ ^{move} the generated Student.class file inside the folder CIE.
- 6) Then compile Internals class using the command
javac Internals.java
- 7) Compile External file using the command
javac External.java
- 8) Then move the Internals.class file inside the CIE folder and External.class file inside the SEE folder.
- 9) Now, compile the Final class using the command
javac Final.java.
- 10) Now, run the driver class Final using the command
java Final to get the output.