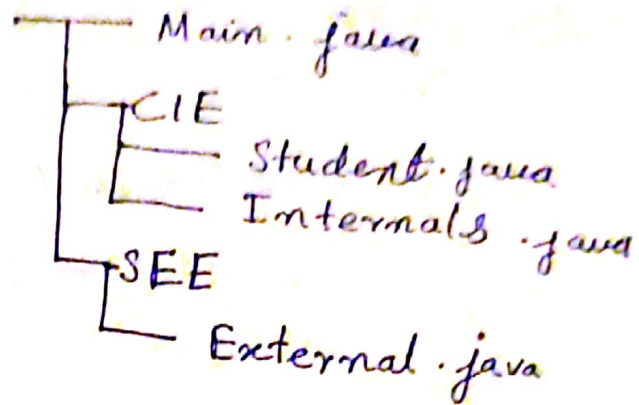


## Week - 9

File structure →



→ Student.java

```
package CIE;
class
public class Student {
    public String name, usn;
    public int sem;
}
```

→ Internals.java

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

public class Internals {
    double internalMarks[] = new double[5];
    Scanner sc = sc = nextDouble(); new Scanner(System.in);
    public void setMarks() {
        for (int i = 0; i < internalMarks.length; i++) {
            System.out.println("Enter Internal Marks (50) of Subject " + (i+1) + ": ");
            internalMarks[i] = sc.nextDouble();
        }
    }
}
```

```

    }
    }
    public void get Marks () {
        System.out.println("Interval Marks out of 50.");
        for (int i=0; i< intervalMarks.length; i++) {
            System.out.println(" Subject "+(i+1) +
                ">> " + intervalMarks[i]);
        }
    }

```

```

    public double get Marks by Index (int index) {
        return intervalMarks [index];
    }
}

```

```

}

```

→ ~~Externals~~ Externals.java

```

package SEE;

```

```

import CIE.Student;

```

```

import java.util.Scanner

```

```

public class Externals extends Student {

```

```

    double

```

```

    double [] external Marks = new double[5];

```

```

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

```

PTO



```
public void setDetails() {
```

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

```
    name = sc.nextLine();
```

```
    System.out.println("Enter USN: ");
```

```
    USN = sc.nextLine();
```

```
    System.out.println("Enter sem: ");
```

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

```
}
```

```
public void setMarks () {
```

```
    for (int i = 0; i < externalMarks.length; i++) {
```

```
        System.out.println("Enter External Marks  
(100) of Subject " + (i+1) + ": ");
```

```
        externalMarks[i] = sc.nextDouble()/2;
```

```
}
```

```
}
```

```
public void getDetails () {
```

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

```
public
```

P.T.O

```

public void getMarks () {
    System.out.println(" External marks  

    out of (50): ");
    for (int i=0; i<externalMarks.length; i++)
        System.out.println("    Subject " + (i+1) + "  

        + externalMarks [i]);
    }
}

```

```

public double getMarks byIndex (index) {
    return externalMarks [index];
}

```

→ Main . java

```

import java.util.Scanner;
import CIE.Intervals;
import SEE.Externals;

```

```

public class Main {
    public static void main (String args[]) {
        int n;
        Scanner sc = new Scanner (System.in);
        System.out.println("Enter number of students!");
    }
}

```

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

```
Internals[] cie = new Internals[n];
```

```
Externals[] see = new Externals[n];
```

```
for (int i = 0; i < see.length; i++) {
```

```
    System.out.println("Enter details of Student  
        + (i+1) + ": ");
```

```
    see[i] = new Externals();
```

```
    see[i].setDetails();
```

```
    System.out.println("Enter Internal Marks" + (i+1) +  
        ":");
```

```
    cie[i] = new Internals();
```

```
    cie[i].setMarks();
```

```
    System.out.println("Enter external marks of  
        student " + (i+1) + ": ");
```

```
    see[i].setMarks();
```

```
}
```



```

for(int i=0; i< see.length; i++){
    System.out.println("Details of student");
    see[i].getDetails();
    System.out.println("Internal Marks of student");
    see[i].getMarks();
    System.out.println("External Marks :");
    see.getMarks();
    System.out.println("Final Marks");
    for(int j=0; j<85; j++){
        System.out.println("Subject " + (j+1) + " >> " +
            (see[i].getMarksByIndex(j) + see[i].getMarksByIndex(j)));
    }
    System.out.println("- - - - -");
}
sc.close();
}

```