

→ Lab Program 6

1. Create a file named CIE
Create classes Student, Internals and Quiz inside the package CIE and save them in the folder CIE
Internals and Quiz extend Student
2. Create another file named SEE
Create class named External inside package SEE
3. Create a class Main
Import the classes Student, Internals and Quiz from package CIE
Import the class External from package SEE

```

=> package CIE;
import java.util.*;
public class Student
{
    public String USN;
    public String name;
    public int sem;
    Scanner sc = new Scanner(System.in);

```

```

    public void setDetails()
{

```

```

    System.out.println("Enter the Name of the Student");
    name = sc.nextLine();
    System.out.println("Enter the USN of the Student");
    USN = sc.nextLine();

```

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```
System.out.println("Enter the sem of the student ");
sem=sc.nextInt();
```

```
{
```

```
public void getDetails()
```

```
{
```

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

```
{
```

```
}
```

```
package IIE;
```

```
import IIE.Student;
```

```
import java.util.*;
```

```
public class Internals extends Student
```

```
{
```

```
public double internalMarks[] = new double[5];
```

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

```
public void setMarks()
```

```
{
```

```
for(int p=0; p<internalMarks.length; p++)
```

```
{
```

```
System.out.println("Enter internal Mark(ho) of subject" + (p+1) + ":");
```

```
internalMarks[p] = sc.nextDouble();
```

```
{
```

```
{
```

```
{
```



```

package CIE;
import IE. Student;
import java.util.*;
public class Quiz extends Student
{
    public double quizMarks[] = new double[5];
    Scanner sc = new Scanner(System.in);
    public void setMarks()
    {
        for (int i = 0; i < quizMarks.length; i++)
        {
            System.out.println("Enter Quiz marks of Suspect " + (i+1) + " (out of 10)");
            quizMarks[i] = sc.nextDouble();
        }
    }
}

```

```

package SEE;
import IE. Student;
import java.util.*;
public class External extends Student
{
    public double externalMarks = new double[5];
    Scanner sc = new Scanner(System.in);
    public void setMarks()
    {
        for (int i = 0; i < externalMarks.length; i++)
        {
            System.out.println("Enter External Marks (100) of Suspect " + (i+1) + " = ");
            externalMarks[i] = sc.nextDouble() / 2;
        }
    }
}

```

```

import IE.Student;
import IE.Internal;
import IE.Quiz;
import SEE.External;
import java.util.*;

public class Main
{
    public static void main (String[] args)
    {
        int n;
        Scanner sc = new Scanner (System.in);
        System.out.println("Enter the number of students: ");
        n = sc.nextInt();
        Student[] st = new Student[n];
        Internal[] in = new Internal[n];
        Quiz[] qz = new Quiz[n];
        External[] ext = new External[n];
        for (int i = 0; i < in.length; i++)
        {
            System.out.println("Enter details of student " + (i+1) + ": ");
            st[i] = new Student();
            st[i].setDetails();
            System.out.println("Enter the Internal Marks of the student " + (i+1) + ": ");
            in[i] = new Internal();
            in[i].setMarks();
            System.out.println("Enter the Quiz Marks of the student " + (i+1) + ": ");
            ext[i] qz[i] = new Quiz();
            qz[i].setMarks();
            System.out.println("Enter the external marks of the student " + (i+1) + ": ");
            ext[i] = new External();
            ext[i].setMarks();
        }
    }
}

```


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

```
{
```

```
    System.out.println("Total Marks of Student with details:");
```

```
    st[i].getDetails();
```

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

```
{
```

```
        System.out.println("Subject " + (i+1) + " Marks : " +
```

```
        (iu[i].internalMarks[j] + end1).externalMarks[i].qz[i].quizMarks[i]
```

```
    }
```

```
}
```

```
}
```

```
}
```