

Lab Program - 6

Student.java

```
package C1F;  
import java.util.Scanner;
```

```
public class Student  
{
```

```
    public String USN;  
    public String name;  
    public int sem;
```

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

```
    public Student()  
{
```

```
        USN = "";
```

```
        name = "";
```

```
        sem = 0;
```

```
    public void accept()  
{
```

```
        System.out.println("Enter Personal Details \n");  
        System.out.println("Enter the USN:");
```

```
        USN = ss.next();
```

```
        System.out.println("Enter the Name:");
```

```
        name = ss.next();
```

```
        System.out.println("Enter the Semester:");
```

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

```
}
```

```
}
```

//Internals.java file.

package CIE
import java.util.Scanner;

public class Internals extends Student

{
public int n=5;

public int cie[] = new int[n];

public int i;

Scanner ss = new Scanner(System.in);

public void acceptcie()

{
System.out.println("CIE marks Details");

System.out.println("Enter the marks in each
of the "+n+" subjects:");

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

{
System.out.println("Enter the CIE marks in
subject "+(i+1)+" : ");

cie[i] = ss.nextInt();

}

}

}

//Externals.java file.

package SEE;

import java.util.Scanner;

import CIE.Student;

public class Externals extends CIE.Student

{


```
public int n=5;
public int re[] = new int[n];
public int i;
Scanner ss = new Scanner(System.in);
```

```
public void accept()
{
```

```
    System.out.println("SEE marks Details");
    System.out.println("Enter the marks in  
each of the "+n+" subjects:");
    for(i=0; i<n; i++)
```

```
    {
        System.out.println("Enter the SEE marks  
in subject "+(i+1)+" : ");
        re[i] = ss.nextInt();
    }
}
```

```
//Totalmarks.java (Driver class)
```

```
import CIE.*;
import SEE.*;
import java.util.Scanner;
```

```
class Totalmarks
{
```

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

```
        int n;
        int tot[7];
        Scanner ss = new Scanner(System.in);
        System.out.println("Enter the number of  
students : ");
```

```

n = 8; nextInt();
tot = new int[n][5];
CIE.Internals ci[] = new CIE.Internals[n];
SEE.Externals se[] = new SEE.Externals[n];
for (int i = 0; i < n; i++)
{

```

```

    System.out.println("Details of Student " +
                        (i+1));

```

```

    ci[i] = new CIE.Internals();

```

```

    se[i] = new SEE.Externals();

```

```

    ci[i].accept();

```

```

    ci[i].acceptcie();

```

```

    se[i].acceptsee();

```

```

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

```

```

        tot[i][j] = ci[i].cie[j] +
                    (se[i].see[j] / 2);
    }

```

```

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

```

```

        System.out.println("Student " + (i+1) + "
                           final marks out of 100");

```

```

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

```

```

            System.out.println("Marks in course " +
                                (j+1) + ": " + tot[i][j]);
        }
    }
}

```


Procedure to Execute

- First compile the classes inside the CIE package namely, the Student.java file and the Internals.java file using the commands,
javac CIE/Student.java
javac CIE/Internals.java.
 - Then compile the class inside the SEE package using the command,
javac SEE/Externals.java
 - Now compile the driver class i.e Totalmarks.java using the command,
javac *Totalmarks.java
 - Execute using java Totalmarks.
- x — x — x — x — x —