

## Lab 6:

```
package CIE;
```

```
import java.util.Scanner;
```

```
public class Student  
{
```

```
    public String usn, name;
```

```
    public int sem;
```

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

```
    public void getdetails1()  
{
```

```
        System.out.println("Enter the usn of the student");
```

```
        usn = input.next();
```

```
        System.out.println("Enter the name of the student");
```

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

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

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

```
    }
```

```
}
```

package CIF;

public class Internals extends Student  
{

public int internal\_marks[] = new int[5];

public void getdetails()  
{

System.out.println("Enter the internal marks  
of the student out of 50")  
for(int i=0; i<5; i++)  
{

System.out.println("in Subject "+(i+1));  
internal\_marks[i] = input.nextInt();  
}

}

}

```
package SFE;
```

```
import CIE.*;
```

```
import java.util.Scanner;
```

```
public class External extends CIE.Student  
{
```

```
    public int external_marks[] = new int[5];
```

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

```
    public void getdetails()  
{
```

```
        System.out.println("Enter the SFE marks of the  
                             student out of 100");
```

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

```
{
```

```
            System.out.println("in subject "+(i+1));
```

```
            external_marks[i] = input.nextInt();
```

```
        }
```

```
    }
```

```
}
```



```
import CIE.*;
```

```
import SEE.*;
```

```
import java.util.Scanner;
```

```
class Final_marks
```

```
{
```

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

```
{
```

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

```
int n;
```

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

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

```
CIE.Internals I[] = new CIE.Internals[n];
```

```
SEE.External E[] = new SEE.External[n];
```

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

```
{
```

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

```
I[i] = new CIE.Internals();
```

```
I[i] = getdetails1();
```

```
I[i] = getdetails();
```

```
E[i] = new SEE.External();
```

```
E[i].getdetails();
```

```
}
```

```
int final_marks = 0;
```

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

```
{
```

```
System.out.println("Name: " + I[i].name + "\n USN: "  
+ I[i].id + "\n Sem: " + I[i].sem);
```

```
System.out.println("Total marks of student " + (i+1));
```

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

```
{
```

```
final_marks = I[i].internal_marks[j] + (I[i].external_  
marks[j] / 2);
```

```
System.out.println("Subject " + (j+1));
```

```
System.out.println(final_marks);
```

```
}
```

```
}
```

```
}
```

```
}
```