Lab - 6

① Student.java

```
⇒ Package cie;
import java.util.Scanner;
public class Student {
    public String name, usn;
    public int sem;
    Scanner ss = new Scanner(System.in);
    public void get(){
        System.out.println("Enter name:");
        name = ss.nextLine();
        System.out.println("Enter usn:");
        usn = ss.next();
        System.out.println("Enter semester:");
        sem = ss.nextInt();
    }
}
```

② Internals.java

```
⇒ Pacakge cie;
import java.util.Scanner;
public class Internals extends Student
{   public int marks[] = new int[5];
    Scanner ss = new Scanner(System.in);
    public void getInternals(){
        for(int i=0; i<5; i++){
            System.out.println("Enter your
                marks in subject"
                +(i+1)+":");
        marks[i] = ss.nextInt();
    }
}
}
```

(3) External.java

```
package see;
import cie.*;
import java.util.Scanner;
public class External extends cie.Student
{
    public int external m[] = new int[5];
    Scanner ss = new Scanner(System.in);
    public void getExternals() {
        for(int i=0;i<5;i++) {
        System.out.println("Enter your mark
            in subject "+(i+1)+" out of 100:");
        external m[i]=ss.nextInt();
    }
  }
}
```

(4) StudentMain.java

```
import cie.*;
import see.*;
import java.util.Scanner;
class StudentMain {
    public static void main(String args[]){
    Scanner ss=new Scanner(System.in);
  System.out.println("Enter the number of
                    students : ");
  int n = ss.nextInt();
  int total[];
  int i,j;
  total = new int[5];
  cie.Internals in[] = new cie.Internals[n];
  see.External e[] = new see.External[n];
```

```
for (i=0; i<n; i++){
    in[i] = new cie.Internals();
    e[i] = new see.External();
    System.out.println("Enter details of
                student" + (i+1) + ":");
    in[i].get();
    System.out.println("Enter your internals
                marks:");
    in[i].getInternals();
    System.out.println("Enter externals marks");
    e[i].getExternals();
}
    for(i=0; i<n; i++){
        System.out.println("Student" + (i+1));
        for(j=0; j<5; j++){
        total[j] = in[i].marks[j] + (e[i].
                externalm[j])/2;
    System.out.println("The total marks in
                Subject" + (j+1) + ": " + total[j]);

    }
}
}
```

Procedure :-

1. Create a folder and store all the java files in it.
2. Create folders with the name of the packages.
3. Compile the java files and shift the byte code files to the respective packages one by one.
4. Later execute the class. driver