Lab 7

CIE/Student.java

```
package CIE;
import java.util.Scanner;
public class student {
    protected String usn = new String();
    protected String name = new String();
    protected int sem;

    public void inputStudentDetails() {
        Scanner input = new Scanner(System.in);

        System.out.println("Enter usn:");
        usn = input.nextLine();
        System.out.println("Enter name:");
        name = input.nextline();

    }

public void displayDetails() {
    System.out.println("Name:" + name + "\nUSN: " + usn
                       + "\nSem: " + sem);

}

}
```

// CIE/internal.java.

```
package CIE;

public class internal extends student{
    protected int marks[] = new int[5];

    public void inputCIEMarks(){
        Scanner input = new Scanner(System.in);

        for(int i=0; i<5; i++){
            System.out.println("Enter marks of subject"+(i
            marks[i] = input.nextInt();

        }
    }
}
```

SEE/~~int~~ external.java

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

public class external extends internals{
    protected int mark[];
    protected int finMarks[];

    public Externals(){
        this.marks = new int[5];
        this.fmarks = new int[5];

    }
```

```
public void inputSEEmarks(){
    Scanner s = new Scanner(System.in);
    for(int i=0; i<5; i++){
        System.out.print("subject"+(i+1)+"marks");
        marks[i] = s.nextInt();
    }
}
public void calculateFinalMarks(){
    for(int i=0; i<5; i++){
        finalMarks[i] = mark[i]/2+ super.mark
+"");
    }
public void displayFinalMark(){
    displayStudentdetails();
    for(int i=0; i<5; i++)
        System.out.println(finalMarks[i]);
}
```

SEE/main.java

```
import SEE.externals;
class main{
  public static void main(String args[]) {
    int num = 2;
    external finalMarks[] = new external[num];
  for(int i=0; i<num; i++){
    finalMain[i] = new Internals();
    finalMarks[i].inputStudentDetails();
    System.out.println("Enter CIE marks");
    finalMarks[i].inputCIEmarks();
  }
}
System.out.println("Displaying data:\n");
  for(int i=0; i<num; i++){
    finalMarks[i].calculateMarks;
    finalMarks[i].diplayfinalMarks;
  }
```

Output:

Enter
Student 1
Enter marks of
subject 1 : 30
subject 2 : 50
subject 3 : 40
subject 4 : 20
subject 5 : 10

Student 2
Enter marks of
subject 1 : 30
subject 2 : 70
subject 3 : 60
subject 4 : 80
subject 5 : 90

Student 1
Enter marks of
subject 1 : 20
subject 2 : 40
subject 3 : 30
subject 4 : 10
subject 5 : 0

Student 2
Enter subject mark of
subject 1 : 70
subject 2 : 40
subject 3 : 20
subject 4 : 80
subject 5 : 10

CIE:

sub 1 marks : 30
sub 2 marks : 50
sub 3 marks : 40
sub 4 marks : 20
sub 5 marks : 10

SEE:

sub 1 marks : 30
sub 2 marks : 70
sub 3 marks : 60
sub 4 marks : 80
sub 5 marks : 90

CIE:

sub 1 marks : 20
sub 2 marks : 40
sub 3 marks : 30
sub 4 marks : 10
sub 5 marks : 0

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