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USN :- JBM27C3252

LAB-6

1) CIE - student.java

```
package CIE;
```

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

```
public class Student{
```

```
    protected String name = new String();
```

```
    protected String usn = new String();
```

```
    protected int sem;
```

```
    public void inputStudentDetails(){
```

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

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

```
        name = s.nextLine();
```

```
        System.out.println("USN:");
```

```
        usn = s.nextLine();
```

```
        System.out.println("Sem:");
```

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

```
    }
```

```
    public void display(){
```

```
        System.out.println("Student details");
```

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

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

```
        System.out.println("Sem : " + sem);
```

```
    }
```

```
}
```

CIE - Internals.java

```
package CIE;
```

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

```
public class Internals extends Student {
```

```
    protected int marks[] = new int[5];
```

```
    public void inputCie() {
```

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

```
        System.out.println("Enter the marks in  
        5 subjects");
```

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

```
            marks[i] = s.nextInt();
```

```
        }
```

```
    }
```

```
}
```

SEE - Externals.java

```
package SEE;
```

```
import CIE.Internals;
```

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

```
public class Externals extends Internals {
```

```
    protected int marks[];
```

```
    protected int finalmarks[];
```

```
    public Externals() {
```

```
        marks = new int[5];
```

```
        finalmarks = new int[5];
```

```
    }
```

```
    public void inputSee() {
```

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

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

```
            System.out.println("Enter the marks in  
            5 subjects");
```

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

```
marks[i] = s.nextInt();
```

```
}
```

```
}
```

```
public void c/marks() {
```

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

```
finalmarks[i] = marks[i]/2 + supermarks[i];
```

```
}
```

```
}
```

```
public void displaymarks() {
```

```
display();
```

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

```
System.out.println("subject "+ (i+1) + " " +  
finalmarks[i]);
```

```
}
```

```
}
```

```
}
```

Student main.java

```
package IIT;
```

```
import SEE.Externals;
```

```
public class Studentmain {
```

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

```
int n=1;
```

```
Externals finalmarks[] = new Externals[n];
```

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

```
finalmarks[i] = new Externals();
```

```
finalmarks[i].inputStudentMarks();
```

```
System.out.println("Enter IIT marks:");
```

```
finalmarks[i].inputCIE();
```

```
System.out.println("Enter SEE marks:");
```

```
finalmarks[i].inputsee();
```

```
}
```

```
System.out.println("Displaying data:");
```

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

```
    finalmarks[i].cfmarks();
```

```
    finalmarks[i].displaymarks();
```

```
}
```

```
}
```

```
}
```

Output :-

Name : Sagar Bangani

USN : 1BM2215231

Sem : 3

Enter UFE marks:

50 49 47 46 48

Enter SEE marks:

Subject 1 marks : 98

Subject 2 marks : 95

Subject 3 marks : 89

Subject 4 marks : 91

Subject 5 marks : 92

Displaying data:

Name : ~~Sagar~~ Sagar Bangani

USN : 1BM2215231

Sem : 3

Subject 1 : 98

Subject 2 : 97

Subject 3 : 90

Subject 4 : 92

Subject 5 : 91

100
244 = 100