

Lab 6 - Package

Develop a Java program and create a CSE package consists of student and Internal classes and CSE package

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1] CSE student.java

```
Package CSE;  
import java.util.*;  
public class student {  
    protected String name = new String();  
    protected String usn = new String();  
    protected int sem  
    public void inputstuddetails() {  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Name:");  
        name = sc.nextLine();  
        System.out.println("USN");  
        usn = sc.nextLine();  
    }  
}
```

```

        System.out.println("sem");
        sem = s.nextInt();
    }

    public void display() {
        System.out.println("student details");
        System.out.println("name: " + name);
        System.out.println("urn: " + urn);
        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 input() {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the marks of 5 students");
        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 void inputsee() {
    Scanner s = new Scanner(System.in);
    for (int i = 0; i < 5; i++) {
        System.out.println("subject " +
            (i + 1) + " marks ");
        marks[i] = s.nextInt();
    }
}

```

```

}
public void ofmarks() {
    for (int i = 0; i < 5; i++) {
        finalmarks[i] = marks[i] / 2
            + super.marks[i];
    }
}

```

```

}
public void displaymarks() {
    display();
    for (int i = 0; i < 5; i++) {
        System.out.println("subject " +
            (i + 1) + " i " + finalmarks[i]);
    }
}

```

```

}
}

```

Studentmain.java

```

package CTE;
import SEE.Externals;
public class Studentmain {
    public static void main(String
        args) {
        int n = 1;
    }
}

```

$$\begin{array}{r}
 3 \overline{) 216} \\
 \underline{216} \\
 0 \\
 \underline{0} \\
 0
 \end{array}$$

```

Externals finalmarks[] = new Externals[n];
for (int i = 0; i < n; i++) {
    finalmarks[i] = new Externals();
    finalmarks[i].inputStudentDetails();
    System.out.println("Enter CIE marks:");
    finalmarks[i].inputCIE();
    System.out.println("Enter SEE marks:");
    finalmarks[i].inputSEE();
}

```

```

System.out.println("Display data:");
for (int i = 0; i < n; i++) {
    finalmarks[i].cfmarks();
    finalmarks[i].displaymarks();
}

```

Output :

Name : Shashidhar B. M

USN : 1BM22CS257

SEM : 3

Enter CIE 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

Display data :

Name : phashidhar B

USN : 18M22CS257

sem : 3

Subject 1 : 98

Subject 2 : 97

Subject 3 : 90

Subject 4 : 92

Subject 5 : 91

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Name : phashidhar B

USN : 18M22CS257

sem : 3

Subject 1 : 98

Subject 2 : 97

Subject 3 : 90

Subject 4 : 92

Subject 5 : 91

Subject 6 : 91

Subject 7 : 91

Subject 8 : 91