

6) Create a package CIE which has 2 class - Student & Internals.
The class personal has members like usn, name, sem. The
class Internals has an array that stores the internal marks
stored in 5 courses of current semester of student. Create another
package SEE which has the class External which is derived
class of student. This class has an array that stores the SEE
marks stored in 5 courses of the current sem of student. Import
the 2 packages in a file that declares final marks of n
students in all 5 courses.

[Totalmarks.java]

```
import CIE.*;
import SEE.*;
import java.util.*;

class Totalmarks {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the number of students : ");
        int n = in.nextInt();
        SEE.Externals ob1[] = new SEE.Externals[5];
        CIE.Internals ob2[] = new CIE.Internals[5];
        for(int i=0; i<n; i++) {
            System.out.println("Enter the details of student " + (i+1));
            System.out.print("USN: ");
            String usn = in.next();
            System.out.print("name: ");
            String name = in.next();
            System.out.print("Sem ");
            int sem = in.nextInt();
            ob1[i] = new SEE.Externals();
            ob2[i] = ob1[i].get();
            ob2[i].set(usn, name, sem);
            ob1[i].set(ob2[i]);
        }
    }
}
```

```

for(i=0; i<n; i++) {
    System.out.println("Student number " + (i+1)),
    for(int j = 0; j<5; j++) {
        System.out.println("Subject " + (j+1) + " total marks: "
                           + (ob2[i].cie[j] + ob1[i].sec[j]/2))
    }
}

```

[student.java]

```

package CIE;
public class Student {
    public String usn;
    public String name;
    public int sem;
    public Student() {}
    public Student(String usn, String name, int sem) {
        this.usn = usn;
        this.name = name;
        this.sem = sem;
    }
}

```

[Internals.java]

```

package CIE;
import java.util.Scanner;
public class Internals extends Student {
    Scanner in = new Scanner(System.in);
    public int[] cie = new int[5];
    public void get() {
        for(int i=0; i<5; i++) {
            System.out.print("Enter CIE marks in subject " + (i+1) + "(out of 50) of the current semester: ");
            cie[i] = in.nextInt();
        }
    }
}

```

[Externals.java]

```
package SES;  
import java.util.Scanner;  
public class External Externals extends IEE.Student {  
    public Externals (String usn, String name, int sem)  
    {  
        super (usn, name, sem);  
    }
```

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

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

```
public void get ()
```

```
{ System.out.print ("\n");
```

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

```
    System.out.print (" Enter the SEE marks in subject " + (i+1) +  
        " (out of 100 ) of this sem: ");
```

```
SEE [i] = in.nextInt();
```

```
} }
```

totalmarks - Notepad

File Edit Format View Help

```
import CIE.*;
import SEE.*;
import java.util.*;
class totalmarks{
public static void main(String args[]){
Scanner in=new Scanner(System.in);
System.out.println(" Enter the number of student : ");
int n=in.nextInt();
SEE.Externals ob1[]=new SEE.Externals[5];
CIE.Internals ob2[]=new CIE.Internals[5];
for(int i=0;i<n;i++){
System.out.println(" Enter the details of the student "+(i+1));
System.out.println("USN: ");
String usn=in.next();
System.out.print("Name: ");
String name=in.next();
System.out.print(" Sem: ");
int sem=in.nextInt();
ob2[i]=new CIE.Internals();
ob2[i].get();
ob1[i]=new SEE.Externals(usn,name,sem);
ob1[i].get();
for(i=0;i<n;i++){
System.out.println(" Student number " +(i+1));
for(int j=0;j<5;j++){
System.out.println(" Subject "+(j+1)+" total marks: "+(ob2[i].cie[j]+ob1[i].see[j]/2));
}}}}
```

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Internals - Notepad

File Edit Format View Help

```
package CIE;
import java.util.Scanner;
public class Internals extends student{
Scanner in=new Scanner(System.in);
public int[] cie=new int[5];
public void get(){
for(int i=0;i<5;i++){
System.out.println(" Enter CIE marks in subject "+(i+1)+"(out of 50) of the current semester.");
cie[i]=in.nextInt();
}}}
```

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Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8

student - Notepad

File Edit Format View Help

```
package CIE;
public class student{
public String usn;
public String name;
public int sem;
public student(){}
public student(String usn, String name, int sem){
this.usn=usn;
this.name=name;
this.sem=sem;
}}
```

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Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8

File Edit Format View Help

```
package SEE;
import java.util.Scanner;
public class Externals extends CIE.student{
public Externals(String usn, String name, int sem){
super(usn,name,sem);
}
Scanner in=new Scanner(System.in);
public int[] see=new int[5];
public void get(){
System.out.println("\n");
for(int i=0;i<5;i++){
System.out.println("Enter the SEE marks in subject " +(i+1)+ "(out of 100) of this sem: ");
see[i]=in.nextInt();
}}}
```

Command Prompt

Microsoft Windows [Version 10.0.18363.1198]
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C:\Users\sohan>cd C:\Users\sohan\Desktop\Java Programs\lp6\package

C:\Users\sohan\Desktop\Java Programs\lp6\package>javac totalmarks.java

C:\Users\sohan\Desktop\Java Programs\lp6\package>java totalmarks

Enter the number of student :

2

Enter the details of the student 1

USN:

1bm19cs159

Name : sohan

Sem :

3

Enter CIE marks in subject 1(out of 50) of the current semester.

67

Enter CIE marks in subject 2(out of 50) of the current semester.

77

Enter CIE marks in subject 3(out of 50) of the current semester.

56

Enter CIE marks in subject 4(out of 50) of the current semester.

89

Enter CIE marks in subject 5(out of 50) of the current semester.

34

Enter the SEE marks in subject 1(out of 100) of this sem:

99

Enter the SEE marks in subject 2(out of 100) of this sem:

77

Enter the SEE marks in subject 3(out of 100) of this sem:

98

Enter the SEE marks in subject 4(out of 100) of this sem:

90

Enter the SEE marks in subject 5(out of 100) of this sem:

56

Student number 1

Subject 1 total marks: 116

Subject 2 total marks: 115

Subject 3 total marks: 105

Subject 4 total marks: 134

Subject 5 total marks: 62