

23/1/24



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LAB - 6

Create two packages CIE & SEE to calculate marks.

→ student.java code -

```
package CIE ;
import java.util.Scanner;
public class student
{
    protected String usn = new String();
    protected String name = new String();
    protected int sem;
    public void inputDetails()
    {
        Scanner s = new Scanner (System.in);
        System.out.print("Enter student usn:");
        usn = s.next();
        System.out.print("Enter student name:");
        name = s.next();
        System.out.print("Enter student sem:");
        sem = s.nextInt();
    }
    public void displayDetails()
    {
        System.out.println("Student Details:\n");
        System.out.println("USN: " + usn);
        System.out.println("Name: " + name);
        System.out.println("Sem: " + sem);
    }
}
```



→ internals.java code

```
package CIE ;
import java.util.Scanner;
public class internals extends Student
{
    protected int marks[] = new int [5];
    public void CIEmarks()
    {
        Scanner s = new Scanner(System.in);
        for(int i=0; i<5; i++)
        {
            System.out.print("Subject " + (i+1)
                             + "marks: ");
            marks[i] = s.nextInt();
        }
    }
}
```

→ externals.java code

```
package SEE;
import CIE.internals;
import java.util.Scanner;
public class externals extends internals
{
    protected int marks[];
    protected int finalMarks[];
    public externals()
    {
        marks = new int [5];
        finalMarks = new int [5];
    }
}
```




```
public void SEEMarks()  
{  
    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 calMarks()  
{  
    for(int i=0 ; i<5 ; i++)  
    {  
        finalMarks[i] = marks[i]/2  
            + super.marks[i];  
    }  
}
```

```
public void displayFinalMarks()  
{  
    for(int i=0 ; i<5 ; i++)  
    {  
        System.out.println("Subject "  
            + (i+1) + " : " + finalMarks[i]);  
    }  
}
```

→ Main.java code

```
import SEE.externals;  
class Main  
{  
    public static void main (String args[])  
    {  
        int num=2;  
        externals finalMarks[] = new externals[num];  
        for(int i=0; i<num; i++)  
        {  
            finalMarks[i] = new externals();  
            finalMarks[i].inputDetails();  
            System.out.println("Enter CIE marks:");  
            finalMarks[i].CIEmarks();  
            System.out.println("Enter SEE marks:");  
            finalMarks[i].SEEMarks();  
        }  
        System.out.println("Displaying data:");  
        for(int i=0; i<num; i++)  
        {  
            finalMarks[i].calMarks();  
            finalMarks[i].displayDetails();  
            finalMarks[i].displayFinalMarks();  
        }  
    }  
}
```

→ Command Prompt:

file - path > javac -d . student.java

file - path > javac -d . internals.java

file - path > javac -d . externals.java

file - path > javac -d . Main.java

OUTPUT :

Enter student usn : IBM22CS2e8

Enter student name : Preethi

Enter sem : 3

Enter CIE marks:

Subject 1 marks : 36

Subject 2 marks : 37

Subject 3 marks : 38

Subject 4 marks : 34

Subject 5 marks : 39

Enter SEE marks:

Subject 1 marks : 90

Subject 2 marks : 95

Subject 3 marks : 94

Subject 4 marks : 93

Subject 5 marks : 91

Enter student usn : IBM22CS212

Enter student name : Rachana

Enter sem : 3

Enter CIE marks:

Subject 1 marks : 36

Subject 2 marks : 37

Subject 3 marks : 38

Subject 4 marks : 32

Subject 5 marks : 37

Enter SEE marks:

Subject 1 marks : 97

Subject 2 marks : 90

Subject 3 marks : 92

Subject 4 marks : 94

Subject 5 marks : 93



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Student Details :

USN : IBM22CS208

Name : Preethi

Sem : 3

Subject 1 : 81

Subject 2 : 84

Subject 3 : 85

Subject 4 : 80

Subject 5 : 84

Complete the
page

Student Details :

USN : IBM22CS212

Name : Rachana

Sem : 3

Subject 1 : 84

Subject 2 : 82

Subject 3 : 84

Subject 4 : 79

Subject 5 : 83

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