

7-23-01-2024

Package Package CIE → Classes → Student
→ Internals

Package SEE → External

Create the above Packages and classes to implement package concept

package cie;

import java.util.Scanner;

public class Student

{
String usn;

String name;

int sem;

public void inputStudentDetails()

{

Scanner scan = new Scanner(System.in);

System.out.println("Enter name:");

name = scan.next();

System.out.println("Enter usn:");

usn = scan.next();

System.out.println("Enter sem:");

sem = scan.nextInt();

}

public void displayStudentDetails()

{

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

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

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

```
package CIE;
```

```
import java.util.Scanner;
```

```
public class Internals extends Student
```

```
{ protected
```

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

```
    public void inputCIEMarks()
```

```
{
```

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

```
    System.out.println("Enter internal marks of  
                        5 subjects :");
```

```
    for (int i=0; i<marks.length; i++)
```

```
{
```

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

```
}
```

```
}
```

```
}
```



```
package SEE;
```

```
import CIE.Internals;
```

```
import java.util.Scanner;
```

```
public class External extends Internals
```

```
{
```

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

protected int finalMarks[];

public External()

marks = new int[5];

finalmarks = new int[5];

public void inputSEEMarks()

Scanner s = new Scanner(System.in);

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

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

marks[i] = s.~~scan~~.nextInt();

}

}

public void calculateFinalMarks()

{

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

{

finalMarks[i] = marks[i]/2 + super.marks[i];

}

}

public void displayFinalMarks()

{

displayStudentDetails();

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

System.out.println("subject "+(i+1)+" : "+
finalMarks[i]);


```
}  
}  
  
import SEE.External;
```

```
class MainMarks
```

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

```
{
```

```
    int numofstudents = 2;
```

```
    External finalMarks[] = new External [ num of students];
```

```
    for (int i=0 ; i<numofstudents; i++)
```

```
    {
```

```
        finalMarks [i] = new External();
```

```
        finalMarks [i].input StudentDetails ();
```

```
        System.out.println ("Enter CIE marks ");
```

```
        finalMarks [i].input CIE Marks ();
```

```
        System.out.println ("Enter SEE Marks ");
```

```
        finalMarks [i].input SEEMarks ();
```

```
    }
```

```
    System.out.println ("Displaying data: 14");
```

```
    for (int i=0; i<numofstudents; i++)
```

```
    {
```

```
        finalMarks [i].calculate Final Marks ();
```

```
        finalMarks [i].display Final Marks ();
```

```
    } } }
```

Output:

Enter name:

Sanha

Enter usn:

IBM22CS283

Enter sem:

3 Enter CIE marks

Enter internal marks of 5 subjects:

50

49

48

47

46

Enter SEE marks

Subject 1 marks: 99

Subject 2 marks: 98

Subject 3 marks: 90

Subject 4 marks: 95

Subject 5 marks: 96

Enter name:

Siri

Enter usn:

IBM22CS280

Enter sem:

3

Enter CIE marks

Enter internal marks of 5 subjects:

50

45

46

47

49

Enter SEE marks

Subject 1 marks: 90

Subject 2 marks: 99

Subject 3 marks: 8

Subject 4 marks: 98

Subject 5 marks: 90

Displaying data:

Name: Sueha

USN: 1BM22CS283

Sem: 3

Subject 1: 99

Subject 2: 98

Subject 3: 93

Subject 4: 94

Subject 5: 94

Name: Givi

USN: 1BM22CS280

Sem: 3

Subject 1: 95

Subject 2: 94

Subject 3: 50

Subject 4: 96

Subject 5: 94

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