

LAB-6

9 Create a package CIE which has two classes - student and Internals. The class Internals derived from Student has as array that stores the internal marks score in five semesters of the current semester of the student. Create another package SET which has the class Internals which is derived class of Student. The class has an array that stores package CIE; the SET marks scored in five semesters of the current semester.

public class Student {

public String uen;

public String name;

public int sem;

public Student (String uen, String name, int sem) {

this. uen = uen;

this. name = name;

this. sem = sem;

}

}

public class Internals extends Student {

public int [] internalMarks;

public Internals (String uen, String name, int sem) {

super (uen, name, sem);

}

public void inputCIEmarks () {

Scanner s = new Scanner (System.in);

for (int i = 1; i <= 5; i++) {

System.out.println ("Enter marks for " + i + " subject

marks [i] = s.nextInt();

```
}  
}  
package SEE;
```

```
import CSE.Extends;
```

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

```
public class Extends extends Internds {
```

```
    public int marks[];
```

```
    protected int findMarks[];
```

```
    public Extends() {
```

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

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

```
}  
}
```

```
public void inputSEEmarks() {
```

```
    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 calculateFindMarks() {
```

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

```
        findMarks[i] = marks[i]/2 + Super.marks[i];
```

```
}  
}
```

```
public void displayFindMarks() { displayStudentMarks();
```


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

System.out.println ("Subject" + (i+1) + ": " + findMarks(i));

}

}

Main.java →

import SEE.Externals;

public class Main {

public static void main (String args[])

{

int num of students = 2;

External findMarks [] = new External

[num of students];

for (int i = 0; i < num of students; i++) {

findMarks [i] = new External(i);

~~findMarks [i].input StudentDetails(i);~~

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

findMarks [i].input CIE Marks (i);

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

findMarks [i].input SEE-Marks (i);

}

System.out.println ("Displaying data \n");

for (int i = 0; i < num of students; i++) {

~~findMarks [i].calculateFinalMarks(i);~~

~~findMarks [i].displayFinalMarks(i);~~

}

}

}

Output →

Enter USN : 18M22CS273

Enter Name : Shreyash Sthiya

Enter Semester : 2

Enter Internal Marks for Shreyash

Subject 1 Marks 40

Subject 2 Marks 35

Subject 3 Marks 42

Subject 4 Marks 38

Subject 5 Marks 45

Enter SEE marks for Shreyash

Subject 1 Marks : 75

Subject 2 Marks : 80

Subject 3 Marks : 65

Subject 4 Marks : 70

Subject 5 Marks : 85

Enter USN : 18M22CS269

Enter USN : Shreyash

Enter Semester : 2

Enter CIE Marks

Enter Internal Marks for Shreyash

Subject 1 : 36

Subject 2 : 48

Subject 3 : 50

Subject 4 : 42

Subject 5 : 55

Enter SEE Marks for Shreyash

Subject 1 Marks : 80

Subject 2 Marks : 35

Subject 3 Marks : 42

Subject 4 Marks : 38

Subject 5 Marks : 45

Enter ~~SEE~~ marks for Shreyash

Subject 1 Marks 75

Subject 2 Marks 80

Subject 3 Marks 42

Subject 4 Marks 38

Subject 5 Marks 45

Enter SEE marks for Shreyash

Subject 1 Marks : 80

Subject 2 Marks : 72

Subject 3 Marks : 85

Subject 4 Marks : 78

Subject 5 Marks : 90

11 Display Data

USN = 18M22CS209

Name = Shreyash

Semester = 2

Subject 1 17

Subject 2 75

Subject 3 79

Subject 4 73

Subject 5 87

USN = 18M22CS209

Name = Shreyash

Semester 2

Subject 1 = 97

Subject 2 = 84

Subject 3 = 92

Subject 4 = 82

Subject 5 = 100

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