

23-1-21

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USN: 1BM22CS210

classmate

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LAB 7
CIE/Internals.java

package CIE;

import java.util.Scanner;

public class Internals extends Student {
protected int marks[] = new int[5];

public void inputCIEMarks() {

Scanner sc = new Scanner(System.in);
System.out.println("Enter CIE Marks:");
for (int i=0; i<5; i++) {

System.out.println("Enter marks
for Course" + (i+1) + ":"));

marks[i] = sc.nextInt();

}

sc.close();

}

}

CIE/Student.java

package CIE;

import java.util.Scanner;

public class Student {

protected String usn = new String();

protected String name = new String();

protected int sem;

public void inputStudentsDetails() {

Scanner sc = new Scanner(System.in);

System.out.println("Enter your USN:");

usn = sc.nextLine();

```
System.out.println("Enter your Name :");
name = sc.nextLine();
System.out.println("Enter your semesters");
sem = sc.nextInt();
sc.close();
}
```

```
public void displayStudentDetails() {
    System.out.println("USN : " + usn);
    System.out.println("Name : " + name);
    System.out.println("Sem : " + sem);
}
```

SEE/Externals.java

```
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 inputSEEMarks() {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter SEE marks");
}
```

```
for (int i=0; i<5; i++) {  
    System.out.println("Course " + (i+1) + ":" );  
    marks[i] = sc.nextInt();  
}  
sc.close();
```

```
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("Course " + (i+1)  
            + ":" + finalMarks[i]);  
    }  
}
```

~~SEE Main.java~~
import SEE.Externals;

```
public class Main {  
    public static void main (String args[]) {  
        int numofStudents = 2;  
        Externals finalMarks[] = new  
            Externals [int numofStudent];  
  
        for (int i=0; i<numofStudents; i++) {
```

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finalMarks[i] = new Externals();
finalMarks[i].inputStudentDetails();
System.out.println("Enter CIE marks");
finalMarks[i].inputCIEMarks();
finalMarks[i].inputSEEMarks();

{

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

for (int i = 0; i < numStudents; i++)
 finalMarks[i].calculateFinalMarks();
 finalMarks[i].displayFinalMarks();

{

}

}

}

Output

Enter your USN : 1BM22CS20

Enter your Name: Priyanshu Kumar

Enter your Semester: 2

Enter CIE Marks

Enter marks for Course 1: 45

Enter marks for Course 2: 37

Enter marks for Course 3: 47

:

:

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