

23/01/23

Lab-7

// 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 input Student Details () {

Scanner scanner = new Scanner (System.in);

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

usn = scanner.next();

System.out.print("Enter Name:");

name = scanner.next();

System.out.print("Enter Semester:");

sem = scanner.nextInt();

}

public void display Student Details () {

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

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

System.out.println("Semester: " + sem);

}

Internals.java

package CIE;

import java.util.Scanner;

public class Internals extends Student {

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

public void input CIE marks()

{
Scanner scanner = new Scanner(System.in);

System.out.println("Enter the internal marks for " + name);

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

System.out.print("Subject " + (i+1) + " marks: ");

marks[i] = scanner.nextInt();

}

// Externals.java

package SEE;

import CIE.Internals;

import java.util.Scanner;

public class Externals extends Internals {

protected int marks[];

protected int final Marks[];

public Externals() {

marks = new int[5];

final Marks = new int[5];

}

```
public void input SEE marks () {
```

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

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

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

```
System.out.print("Subject "+(i+1)+" marks: ");
```

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

```
}
```

```
}
```

```
public void calculate Final Marks () {
```

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

```
finalMarks[i] = marks[i] / 2 + supn.marks[i];
```

```
}
```

```
public void display Final Marks () {
```

```
display Student Details ();
```

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

```
System.out.print("Subject "+(i+1)+" : " + finalMarks[i]);
```

```
}
```

```
}
```

```
//Main.java
```

```
import SEE.Externals;
```

```
public class Main {
```

```
public static void main
```

```
{ int num of Stud
```

```
.Externals fin
```

```
for (int i=0; i
```

```
final Mark
```

```
final Mark
```

```
System.o
```

```
final Mark
```

```
System.o
```

```
final Mark
```

```
}
```

```
System.out.
```

```
for (int i =
```

```
}
```

```
}
```

```
}
```



```
//Main.java  
import SEE.Externals;
```

```
public class Main {
```

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

```
        int num of Students = 2;
```

```
        Externals finalMarks[] = new Externals (num of Students);
```

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

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

```
            finalMarks[i].input Student Details();
```

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

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

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

```
            finalMarks[i].input SEE marks();
```

```
        }
```

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

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

```
            finalMarks[i].CalculateFinalMarks();
```

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

```
        }
```

```
    }
```

```
}
```

Output:-

Enter USN: IBM22CS201

Enter name: A

Enter Semester: 2

Enter CIE marks:

Enter Internal marks for A

Sub 1: 45

Sub 2: 40

Sub 3: 42

Sub 4: 43

Sub 5: 49

Enter for SEE marks

Enter for SEE marks for A

Sub 1: 85

Sub 2: 89

Sub 3: 87

Sub 4: 88

Sub 5: 87

Enter USN: IBM22CS220

Enter name = B

Enter Semester: 2

Enter CIE marks

Enter Internal Marks for B

Sub 1 = 45

Sub 2 = 47

Sub 3: 40

Sub 4: 43

Sub 5: 44

Enter SEE marks

Enter SEE marks

Sub 4: 90

Sub 2: 78

Sub 3: 79

Sub 4: 89

Sub 5: 80

Displaying

USN: 11

Name: A

Semester

Sub 1 =

Sub 2 =

Sub 3

Sub 4

Sub 5

Sub 1 = 45

Sub 2: 47

Sub 3: 40

Sub 4: 43

Sub 5: 44

Enter SEC marks

Enter SEC marks for B

Sub 4: 90

Sub 2: 78

Sub 3: 79

Sub 4: 89

Sub 5: 80

Displaying data:

USN: 1BM22C3201

Menu: A

Score: 2

Sub 4: 87

Sub 2: 90

Sub 3: 85

Sub 4: 87

Sub 5: 87

Jan

USN 11BM22CS220

Name: B

Seniors: 2

Sub 1: 90

Sub 2: 86

Sub 3: 76

Sub 4: 88

Sub 5: 75

[Signature]
22.10.24