

## LAB 6.

```
package NIE  
import java.util.Scanner  
public class Student {  
protected String usn = new String();  
protected String name = new String();  
protected int sem;
```

```
public void inputStudentDetails() {
```

```
Scanner sc = new Scanner (System.in);  
System.out.println ("Enter the usn");  
usn = sc.next();  
System.out.println ("Enter name");  
name = sc.next();  
System.out.println ("Enter sem");  
sem = sc.nextInt();  
}
```

```
public void displayStudentDetails () {
```

```
System.out.println ("This usn is :" + usn + "\n The  
name is :" + name + "\n The sem : " + sem);
```

```
}
```

Intunals.java

```
public class Intunals extends Student {
```

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

```
public void inputciemarks ()
```

```
{
```

~~```
Scanner s = new Scanner (System.in);  
int i;
```~~~~```
for (i=0; i<5; i++) {
```~~~~```
System.out.println ("Enter the  
marks of subject " + (i+1));
```~~

marks[i] = s.nextInt();

y  
3.

External.java.

```
package SEE;
import CIF.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];
```

y

// Method to see SEE Marks

```
public void input_SEEMarks() {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter SEE marks for each course :");
```

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

y.

//to calculate final Marks:

```
public void calculateFinal Marks () {  
    for (int i=0; i<5; i++) {  
        final Marks[i] = marks[i]/2 +  
            super.intinal Marks[i];  
    }  
}
```

public void displayFinal Marks () {

```
    displayStudentDetails ();  
    for (int i=0; i<5; i++) {  
        System.out.println ("Subject " + (i+1) +  
            ":" + final Marks[i]);  
    }  
}
```

j.

Main.java

```
import SEE.Externals;
```

```
class Main {
```

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

```
    {  
        int numofStudents = 2;
```

```
        Externals final Marks [] = new Externals
```

```
        [numofStudents]
```

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

~~```
        final Marks [i] = new External ();
```~~~~```
        final Marks [i].inputStudentDetails ();
```~~~~```
        System.out.println ("Enter CIE marks");
```~~~~```
        System.out.println ("Enter SEE marks");
```~~

final Marks[i].input SEEmarks(),

}

System.out.println("Displaying data:\n");  
< for (int i=0; i<num of Students; i++)

final Marks[i].calculateFinalMarks();  
final Marks[i].displayFinalMarks();

}

};

~~Output: 23.01.2020~~

Enter USN: 124

Enter Name: Prakash

Enter Semester: 3

Enter CIE Marks:

Enter Internal marks for Prakash

Subject 1 marks : 33

Subject 2 marks : 36

Subject 3 marks : 28

Subject 4 marks : 31

Subject 5 marks : 40

Enter SEE Marks from <sup>Prakash</sup> Room

Subject 1 marks : 89

Subject 1 : 77

Subject 2 marks : 91

Subject 2 : 81

Subject 3 marks : 78

Subject 3 : 67

Subject 4 marks : 84

Subject 4 : 73

Subject 5 marks : 90

Displaying data:

USN: 124

Name: Prakash

Semester: 3