

## Lab program 6 (week 9):-

Student.java:- (..\packs\CIE\Student.java)

```
package CIE;
import java.util.Scanner;
public class Student
{
    public data String usn, name;
    public int sem;
    public Scanner ss = new Scanner(System.in);
    public void getData()
    {
        System.out.println("Name: ");
        name = ss.next();
        System.out.println("USN: ");
        usn = ss.next();
        System.out.println("Semester: ");
        sem = ss.nextInt();
    }
}
```

Internals.java:- (..\packs\CIE\Internals.java)

```
package CIE;
import java.util.Scanner;
public class Internals extends Student
{
    public int ciemarks[] = new int[5];
    public void getmarks()
    {
        getData();
        System.out.println("Enter the CIE marks of the student:");
        for (int i = 0; i < 5; i++)
        {
            System.out.println("Subject " + (i+1) + " :");
            ciemarks[i] = ss.nextInt();
        }
    }
}
```

```

public void display()
{
    System.out.println("Name: " + this.name);
    System.out.println("USN: " + this.usn);
    System.out.println("Semester: " + this.sem);
}
}

```

• Externals.java:- (..\packs\JEE\Externals.java).

```

package JEE;
import java.util.Scanner;
public class Externals extends CIE_Students
{
    public int seemarks[] = new int[5];
    Scanner ss = new Scanner(System.in);
    public void getmarks()
    {
        System.out.println("Enter the JEE marks of the student: ");
        for (i int i = 0; i < 5; i++)
        {
            System.out.println("Subject " + (i+1) + " : ");
            seemarks[i] = ss.nextInt();
        }
    }
}

```

Main.java:- (..\packs\Main.java)

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

```
import CIE.*;
```

```
import SEE.*;
```

class Main

3

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

```
Scanner ss = new Scanner(System.outin);
```

```
int n;
```

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

```
System.out.println("Enter the number of students: ");
```

```
n = ss.nextInt();
```

Internals studcie [] = new Internals [n];

```
Externals studssee[] = new Externals [n];
```

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

۱

`System.out.println("\nxxxxxx : xxxxxxxxxx\n");`

- Studie[i] = new Internals();

studse[i] = new Externals(Ui)

```
studcie[i].getmarks();
```

```
studsee[i].getmarks();
```

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

$$\text{finelmarks}[j] = \text{studie}[i] \cdot \text{uemark}[j] +$$
$$(\text{studsee}[i] \cdot \text{seemarks}[i] / 2);$$

}

```
System.out.println("\n x x x x x x x x x x x x \n");
```

System.out.println("The student and their final marks are: \n");

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

1

```
studcie[i].display();
```

~~604~~



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

```
    System.out.println("Subject " + (j+1) + " : " + finalmarks[j]);  
}
```

```
System.out.println("\n x x x x x x x x x x x \n");  
}
```

```
}
```

```
}
```

Enter the number of Students:

2

\*\*\*\*\*

Name:

Khushil

USN:

1BM19CS072

Semester:

3

Enter the CIE marks of the Student:

Subject 1 :34

Subject 2 :50

Subject 3 :48

Subject 4 :46

Subject 5 :40

Enter the SEE marks of the Student:

Subject 1 :89

Subject 2 :

90

Subject 3 :92

Subject 4 :76

Subject 5 :78

\*\*\*\*\*

Name:

Sharat

USN:

1BM19CS072

Semester:

3

Enter the CIE marks of the Student:

Subject 1 :50

Subject 2 :48

Subject 3 :45

Subject 4 :43

Subject 5 :35

Enter the SEE marks of the Student:

Subject 1 :76

Subject 2 :78

Subject 3 :98

Subject 4 :80

Subject 5 :90

\*\*\*\*\*

The Students and their finals marks are:

Name: Khushil  
USN: 1BM19CS072  
Semester: 3  
Subject 1 :78  
Subject 2 :95  
Subject 3 :94  
Subject 4 :84  
Subject 5 :79

\*\*\*\*\*

Name: Sharat  
USN: 1BM19CS072  
Semester: 3  
Subject 1 :88  
Subject 2 :87  
Subject 3 :94  
Subject 4 :83  
Subject 5 :80

\*\*\*\*\*