23-1-24

PAGE NO

LAB-6

1. //Student

```
package CIE;
public class student
{
    public String name;
    public String usn;
    public int sem;

    public Student (String name, String usn, int sem)
    {
        this.name = name;
        this.usn = usn;
        this.sem = sem;
    }
}
```

//Internals

```
package CIE;

public class Internals extends CIE.Student
{
    public int[] InternalMarks;

    public Internals (String name, String usn, int sem, int [] InternalMarks)
    {
        super(name, usn, sem);
        this.InternalMarks = InternalMarks;
    }
}
```

```
//Externals
package SEE;
import CIE.Student;

public class Externals extends Student
{
    public int[] SeeMarks;
    public Externals( String name, String usn, int sem, int[] SeeMarks
    {
        super(name, usn, sem);
        this.SeeMarks = SeeMarks;
    }
}
```

```
//Final marks

import CIE.Student;
import CIE.Internals;
import SEE.Externals;
import java.util.Scanner;

public class FinalMarks
{
    public static void main(String[] args)
    {
        Scanner sl = new Scanner(System.in);
        System.out.println("Enter the number of Students");
        int n= sl.nextInt();

        String [] names = new String[n];
        String[] usn = new Sking[n];
        int [] sem = new int[n];
        int [][] InternalMarks = new int[n][5];
        int [][] SeeMarks = new int[n][5];
```

```
for(int i=0; i<n; i++)
{
    System.out.println("Enter details for student " + (i+1)+ ":");
    System.out.println("Name :");
    names[i] = sl.next();
    System.out.println("USN: ");
    usn[i] = sl.next();
    System.out.println("SEM :");
    sem[i] = sl.nextInt();
    System.out.println("Enter Internal Marks for 5 courses:");

for (int j=0; j<5; j++)
{
    System.out.println("Course " + (j+1)+ ":");
    InternalMarks[i][j] = sl.nextInt();
}
    System.out.println("Enter internal marks for 5 courses:");
for (int j=0; j<5; j++)
{
    System.out.println("Course " + (j+1) + ":");
    seeMarks[i][j] = sl.nextInt();
}

    int[][] FinalMarks = new int[n][5];
for (int i=0; i<n; i++)
{
    Internals Il = new Internals(names[i], usn[i], sem[i], InternalMarks[i]);
    Externals El = new Externals(names[i], usn[i], sem[i], seeMarks[i]);

for (int j=0; j<5; j++)
{
  FinalMarks[i][j] = Il.InternalMarks[i] + El.seeMarks[j];
}
  System.out.println("Final Marks for " + n + "Students in 5
```

```
marks:");
for(i=0;i<n;i++)
{
    System.out.println(names[i]+":");
  for(int j=0; j<5; j++)
{
    System.out.println(FinalMarks[i][j]+ ":");
}
    System.out.println();
}
sl.close();
}
}
}
```

Output:

```
Enter number of students: 1
Enter name: A
Enter USN: 1
Enter sec: 1
Enter internal marks for 5 courses:
30
10
9
10
9
Enter See marks for 5 courses
10
9
9
10
9
```