NAME : Ramya Ramesh
USN : 1BM19CHO38

LAB PROGRAM 6

i) Student. java

```java
package CIE
import java.util.Scanner;
public class Student
{
    public String name;
    public String usn;
    public int sem;
    public void display()
    {
        Scanner s = new Scanner (System.in);
        System.out.println (" Enter Name: \n");
        name = s.nextLine();
        System.out.println (" Enter USN: \n");
        usn = s.nextLine();
        System.out.println ("Enter Semester : \n");
        sem = s.nextInt();
    }
}
```

ii) Intervals. java

```java
package CIE;
import java.util.Scanner;
public class Intervals extends Student
{
    public double cie[];
```

```java
public void display()
{
    cie = new double[5];
    Scanner sc = new Scanner(System.in);
    System.out.println(" The CIE marks for 5
        subjects (out of 50) are : \n ");
    for (int i=0; i<5; i++)
    {
        cie[i] = sc.nextDouble();
    }
}
```

iii) Externals.java

```java
package SEE;
import java.util.*;
import CIE.*;
public class Externals extends CIE.Student
{
    public double see[];

    public void display()
    {
        see = new double[5];
        Scanner s = new Scanner(System.in);
        System.out.println(" The SEE Marks for
            the 5 subjects (out of 100) are : \n");
        for (int i=0; i<5; i++)
        {
            see[i] = s.nextDouble();
        }
    }
}
```

iv) Main.java

```java
import CIE.*;
import SEE.*;
import java.util.Scanner;
public class Main
{
    public static void main (String args[])
    {
        int n;
        Scanner s = new Scanner (System.in);
        System.out.println("Enter the number of
            students: \n");
        n = s.nextInt();
        CIE.Student st[] = new CIE.Student[n];
        CIE.Internals in[] = new CIE.Internals[n];
        SEE.Externals ex[] = new SEE.Externals[n];
        for (int i=0; i<n; i++)
        {

            st[i] = new CIE.Student();
            in[i] = new CIE.Internals();
            ex[i] = new SEE.Externals();
            st[i].display();
            in[i].display();
            ex[i].display();
            System.out.println("The Total marks of the
                student " + st[i].name + " in the 5
                subjects are : \n");
            for (int j=0; j<5; j++)
            {
                System.out.println(in[i].cie[j] + (
                    ex[i].see[j]/2));
            }
        }
    }
}
```