**LAB PROGRAM 6**

package CIE;

import java.util.\*;

public class Student

{

public String usn,name;

public int sem;

public void input()

{

Scanner sc=new Scanner(System.in);

System.out.println("---enter student details---");

System.out.print("name : ");

name= sc.nextLine();

System.out.print("usn : ");

usn=sc.nextLine();

System.out.print("sem : ");

sem=sc.nextInt();

System.out.println();

}

public void display()

{

System.out.println("---student details---");

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

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

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

}

}

package CIE;

import java.util.\*;

public class Internals

{

public int cie\_marks[]=new int[5];

public void input()

{

Scanner sc=new Scanner(System.in);

System.out.println("enter cie marks in 5 courses :");

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

cie\_marks[i]=sc.nextInt();

}

public void display()

{

System.out.println("cie marks : ");

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

System.out.print(cie\_marks[i]+" ");

System.out.println();

}

}

package SEE;

import CIE.\*;

import java.util.\*;

public class External extends CIE.Student

{

public int see\_marks[]=new int[5];

public void input()

{

Scanner sc=new Scanner(System.in);

System.out.println("enter see marks in 5 courses :");

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

see\_marks[i]=sc.nextInt();

}

public void display()

{

System.out.println("see marks : ");

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

System.out.print(see\_marks[i]+" ");

System.out.println();

}

}

import CIE.\*;

import SEE.\*;

import java.util.\*;

class main

{

int final\_marks[]=new int[5];

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

System.out.println("enter no of students ");

int n=sc.nextInt();

CIE.Student []o1=new CIE.Student[n];

CIE.Internals []o2=new CIE.Internals[n];

SEE.External []o3=new SEE.External[n];

main []obj=new main[n];

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

{

o1[i]=new CIE.Student();

o2[i]=new CIE.Internals();

o3[i]=new SEE.External();

obj[i]=new main();

o1[i].input();

o2[i].input();

o3[i].input();

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

obj[i].final\_marks[j]=o2[i].cie\_marks[j]+(o3[i].see\_marks[j]/2);

}

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

{

o1[i].display();

o2[i].display();

o3[i].display();

System.out.println("final marks in 5 courses");

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

System.out.print(obj[i].final\_marks[j]+" ");

System.out.println();

}

}

}