

LAB PROGRAM – 6

INPUT :

```
C:\Users\91944\OneDrive\Desktop\OO\LAB\Week_9\CIE\Student.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

Student.java x Internals.java x Externals.java x Totalmarks.java x

1 package CIE;
2
3 import java.util.Scanner;
4
5 public class Student
6 {
7     public String usn;
8     public String name;
9     public int sem;
10    Scanner ss = new Scanner(System.in);
11
12    public Student()
13    {
14        usn = "";
15        name = "";
16        sem = 0;
17    }
18
19    public void accept()
20    {
21        System.out.println("\n<-----ENTER PERSONAL DETAILS----->\n");
22        System.out.println("Enter the student USN :");
23        usn = ss.next();
24        System.out.println("Enter the student NAME :");
25        name = ss.next();
26        System.out.println("Enter the student SEMESTER :");
27        sem = ss.nextInt();
28    }
29 }
```

```
C:\Users\91944\OneDrive\Desktop\OO\LAB\Week_9\CIE\Internals.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

Student.java x Internals.java x Externals.java x Totalmarks.java x

1 package CIE;
2
3 import java.util.Scanner;
4
5 public class Internals extends Student
6 {
7     public int n = 5;
8     public int cie[] = new int[n];
9     public int i;
10    Scanner ss = new Scanner(System.in);
11
12    public void acceptcie()
13    {
14        System.out.println("\n<-----CIE MARKS DETAILS----->\n");
15        System.out.println("Enter the marks in each of the "+n+" subjects :");
16        for(i = 0; i < n; i++)
17        {
18            System.out.print("Enter the CIE marks in subject "+(i+1)+" : ");
19            cie[i] = ss.nextInt();
20        }
21    }
22 }
```

```

1 package SEE;
2
3 import java.util.Scanner;
4 import CIE.Student;
5
6 public class Externals extends CIE.Student
7 {
8     public int n = 5;
9     public int see[] = new int[n];
10    public int i;
11    Scanner ss = new Scanner(System.in);
12
13    public void acceptsee()
14    {
15        System.out.println("\n<-----SEE MARKS DETAILS----->\n");
16        System.out.println("Enter the marks in each of the "+n+" subjects :");
17        for(i = 0; i < n; i++)
18        {
19            System.out.print("Enter the SEE marks in subject "+(i+1)+" : ");
20            see[i] = ss.nextInt();
21        }
22    }
23 }

```

```

1 import CIE.*;
2 import SEE.*;
3 import java.util.Scanner;
4
5 class Totalmarks
6 {
7     public static void main(String[] args)
8     {
9         int n;
10        int tot[][];
11        Scanner ss = new Scanner(System.in);
12        System.out.println("Enter the number of students : ");
13        n = ss.nextInt();
14        tot = new int[n][5];
15        CIE.Internals ci[] = new CIE.Internals[n];
16        SEE.Externals se[] = new SEE.Externals[n];
17        for(int i = 0; i < n; i++)
18        {
19            System.out.println("\n<-----DETAILS OF STUDENT "+(i+1)+"----->");
20            ci[i] = new CIE.Internals();
21            se[i] = new SEE.Externals();
22            ci[i].accept();
23            ci[i].acceptcie();
24            se[i].acceptsee();
25            for(int j = 0; j < 5; j++)
26            {
27                tot[i][j] = ci[i].cie[j] + (se[i].see[j] / 2);
28            }
29        }
30        System.out.println("\n<----->");
31        for(int i = 0; i < n; i++)
32        {
33            System.out.println("\nSTUDENT "+(i+1)+" FINAL MARKS OUT OF 100\n");
34            for(int j = 0; j < 5; j++)
35            {
36                System.out.println("Marks in Course "+(j+1)+" : "+tot[i][j]);
37            }
38        }
39        System.out.println("\n<----->\n");
40    }
41 }

```

OUTPUT :

```
Command Prompt

C:\Users\91944\OneDrive\Desktop\OOJLAB\Week_9>java Totalmarks
Enter the number of students :
2

<-----DETAILS OF STUDENT 1----->

<-----ENTER PERSONAL DETAILS----->

Enter the student USN :
111
Enter the student NAME :
Ram
Enter the student SEMESTER :
3

<-----CIE MARKS DETAILS----->

Enter the marks in each of the 5 subjects :
Enter the CIE marks in subject 1 : 45
Enter the CIE marks in subject 2 : 46
Enter the CIE marks in subject 3 : 47
Enter the CIE marks in subject 4 : 48
Enter the CIE marks in subject 5 : 49

<-----SEE MARKS DETAILS----->

Enter the marks in each of the 5 subjects :
Enter the SEE marks in subject 1 : 95
Enter the SEE marks in subject 2 : 96
Enter the SEE marks in subject 3 : 97
Enter the SEE marks in subject 4 : 98
Enter the SEE marks in subject 5 : 99
```

```
Command Prompt

<-----DETAILS OF STUDENT 2----->

<-----ENTER PERSONAL DETAILS----->

Enter the student USN :
222
Enter the student NAME :
Shyam
Enter the student SEMESTER :
3

<-----CIE MARKS DETAILS----->

Enter the marks in each of the 5 subjects :
Enter the CIE marks in subject 1 : 40
Enter the CIE marks in subject 2 : 41
Enter the CIE marks in subject 3 : 42
Enter the CIE marks in subject 4 : 43
Enter the CIE marks in subject 5 : 44

<-----SEE MARKS DETAILS----->

Enter the marks in each of the 5 subjects :
Enter the SEE marks in subject 1 : 90
Enter the SEE marks in subject 2 : 91
Enter the SEE marks in subject 3 : 92
Enter the SEE marks in subject 4 : 93
Enter the SEE marks in subject 5 : 94
<----->

STUDENT 1 FINAL MARKS OUT OF 100

Marks in Course 1 : 92
Marks in Course 2 : 94
Marks in Course 3 : 95
Marks in Course 4 : 97
Marks in Course 5 : 98
```

```
Command Prompt

STUDENT 2 FINAL MARKS OUT OF 100

Marks in Course 1 : 85
Marks in Course 2 : 86
Marks in Course 3 : 88
Marks in Course 4 : 89
Marks in Course 5 : 91
<----->

C:\Users\91944\OneDrive\Desktop\OOJLAB\Week_9>
```