

## WEEK 9 LAB PROGRAM 6

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

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

\_/\_/\_

```

package CIE;
import java.util.Scanner;
public class Student
{
    public 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.nextInt();
        System.out.println("Semester : ");
        sem = ss.nextInt();
    }
}

```

```

package SEE;
import java.util.Scanner;
public class External extends CIE.Student
{
    public int seenmarks[] = new int[5];
    Scanner ss = new Scanner(System.in);
}

```



\_/\_/\_

```
public void getmarks ()
```

```
{
    System.out.println("Enter SEE marks");
    for (i=0; i<5; i++)
    {
        seemarks[i] = ss.nextInt();
    }
}
```

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

```
import CIE.*;
```

```
import SEE.*;
```

```
class main
```

```
{
```

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

```
    {
```

```
        Scanner ss = new Scanner (System.in);
        int n;
```

```
        int finalmarks [][] = new int [5][5];
```

```
        System.out.println("Enter no. of students");
```

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

```
        Internals studiec [] = new Internals [n];
```

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



```

for(int i=0; i<n; i++)
{
    studie[i] = new Internals();
    studsee[i] = new Externals();
    studie[i].getmarks();
    studsee[i].getmarks();
    for(int j=0; j<5; j++)
    {
        finalmarks[i][j] = studie[i].getmarks[j] +
            studsee[i].getmarks[j] * 2;
    }
}
for(int i=0; i<n; i++)
{
    studie[i].display();
    for(int j=0; j<5; j++)
    {
        System.out.println("finalmarks
            [i][j]");
    }
}
}
}
}

```

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## WEEK 10 LAB PROGRAM 7.

```
import java.util.Scanner;  
class Demo {T, S}
```

```
{  
    T m1;  
    S m2;
```

```
    Demo (T m1, S m2)
```

```
{  
    this.m1 = m1;  
    this.m2 = m2;
```

```
}
```

```
    public void display ()
```

```
{  
    System.out.println ("The value of" +  
        this.m1 + "is" + this.m2);
```

```
}
```

```
}
```

```
class DemoMain
```

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



```
Java demo <String, String> std1 = new  
demo <String, String> ("Name", "Iskika");  
std1.display();  
}  
}
```

```
Internals.java X
G: > bin > CIE > Internals.java > {} CIE
1 package CIE;
2
3 import java.util.Scanner;
4
5 public class Internals extends Student
6 {
7     public int ciemarks[]=new int[5];
8     public void getmarks()
9     {
10         getData();
11         System.out.println("Enter the CIE marks of the Student: ");
12         for(int i=0;i<5;i++)
13         {
14             System.out.printf("Subject "+(i+1)+" :");
15             ciemarks[i]=ss.nextInt();
16         }
17     }
18     public void display()
19     {
20         System.out.println("Name: "+this.name);
21         System.out.println("USN: "+this.usn);
22         System.out.println("Semester: "+this.sem);
23     }
24 }
```

Internals.java Student.java X

G: > bin > CIE > Student.java > {} CIE

```
1 package CIE;
2
3 import java.util.Scanner;
4
5 public class Student
6 {
7     public String usn,name;
8     public int sem;
9
10    public Scanner ss=new Scanner(System.in);
11    public void getData()
12    {
13        System.out.println("Name: ");
14        name=ss.next();
15        System.out.println("USN: ");
16        usn=ss.next();
17        System.out.println("Semester: ");
18        sem=ss.nextInt();
19    }
20 }
```



Internals.java Student.java Externals.java X

G: > bin > SEE > Externals.java > {} SEE

```
1 package SEE;
2
3 import java.util.Scanner;
4
5
6 public class Externals extends CIE.Student
7 {
8     public int seemarks[]=new int[5];
9     Scanner ss=new Scanner(System.in);
10    public void getmarks()
11    {
12        System.out.println("Enter the SEE marks of the Student: ");
13        for(int i=0;i<5;i++)
14        {
15            System.out.printf("Subject "+(i+1)+" :");
16            seemarks[i]=ss.nextInt();
17        }
18    }
19 }
```

```
Internals.java Student.java Externals.java Main.java X
G: > bin > Main.java > ...
1 import java.util.Scanner;
2 import CIE.*;
3 import SEE.*;
4
5 class Main
6 {
7     public static void main(String args[])
8     {
9         Scanner ss=new Scanner(System.in);
10        int n;
11        int finalmarks[][]=new int[5][5];
12        System.out.println("Enter the number of Students: ");
13        n=ss.nextInt();
14        Internals studcie[]=new Internals[n];
15        Externals studsee[]=new Externals[n];
16        for(int i=0;i<n;i++)
17        {
18            System.out.println("\n*****\n");
19            studcie[i]=new Internals();
20            studsee[i]=new Externals();
21            studcie[i].getmarks();
22            studsee[i].getmarks();
23            for(int j=0;j<5;j++)
24            {
25                finalmarks[i][j]=studcie[i].ciemarks[j]+(studsee[i].seemarks[j]/2);
26            }
27        }
28        System.out.println("\n*****\n");
29        System.out.println("The Students and their finals marks are: \n");
}
```



```
Internals.java Student.java Externals.java Main.java X
G: > bin > Main.java > ...
20     studsee[i]=new Externals();
21     studcie[i].getmarks();
22     studsee[i].getmarks();
23     for(int j=0;j<5;j++)
24     {
25         finalmarks[i][j]=studcie[i].ciemarks[j]+(studsee[i].seemarks[j]/2);
26     }
27 }
28 System.out.println("\n*****\n");
29 System.out.println("The Students and their finals marks are: \n");
30 for(int i=0;i<n;i++)
31 {
32     studcie[i].display();
33     for(int j=0;j<5;j++)
34     {
35         System.out.println("Subject "+(j+1)+" :"+finalmarks[i][j]);
36     }
37     System.out.println("\n*****\n");
38 }
39 }
40 }
41 }
```

```
Internals.java Student.java Externals.java Main.java X
G: > bin > Main.java > ...
1 import java.util.Scanner;

TERMINAL PROBLEMS 5 OUTPUT DEBUG CONSOLE 1: Java Process Console
PS C:\Users\hp> & 'c:\Users\hp\.vscode\extensions\vscjava.vscode-java-debug-0.30.0\scripts\launcher.bat' 'C:\Program Files\AdoptOpenJDK\jdk-11.0.9-hotspot\bin\java.exe' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\hp\AppData\Local\Temp\vscodesws_a4ac1\jdt_ws\jdt.ls-java-project\bin' 'Main'
Enter the number of Students:
2

*****

Name:
ishika
USN:
064
Semester:
2
Enter the CIE marks of the Student:
Subject 1 :23
Subject 2 :67
Subject 3 :50
Subject 4 :23
Subject 5 :12
Enter the SEE marks of the Student:
Subject 1 :34
Subject 2 :78
Subject 3 :98
Subject 4 :67
Subject 5 :100

*****

Name:
ishikja
USN:
```



```
Internals.java Student.java Externals.java Main.java X
G: > bin > Main.java > ...
1 import java.util.Scanner;

*****

Name:
ishikja
USN:
087
Semester:
2
Enter the CIE marks of the Student:
Subject 1 :34
Subject 2 :35
Subject 3 :36
Subject 4 :37
Subject 5 :38
Enter the SEE marks of the Student:
Subject 1 :89
Subject 2 :89
Subject 3 :89
Subject 4 :89
Subject 5 :89

*****

The Students and their finals marks are:

Name: ishika
USN: 064
Semester: 2
Subject 1 :40
Subject 2 :106
Subject 3 :99
```

```
Internals.java Student.java Externals.java Main.java X
G: > bin > Main.java > ...
1 import java.util.Scanner;

*****

The Students and their finals marks are:

Name: ishika
USN: 064
Semester: 2
Subject 1 :40
Subject 2 :106
Subject 3 :99
Subject 4 :56
Subject 5 :62

*****

Name: ishikja
USN: 087
Semester: 2
Subject 1 :78
Subject 2 :79
Subject 3 :80
Subject 4 :81
Subject 5 :82

*****

PS C:\Users\hp>
PS C:\Users\hp>
PS C:\Users\hp> cd 'g:\bin\programs java'; & 'c:\Users\hp\.vscode\extensions\vscjava.vscode-java-debug-0.29.0\scripts\launcher.bat' 'C:\Program Files\AdoptOpenJDK\jdk-11.0.9-hotspot\bin\java.exe' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\hp\AppData\Roaming\Code\User\workspaceStorage\52609d74f618f292e0a3b14e2f3022b4\redhat.java\jdt_ws\programs java_b548dbef\bin' 'ButtonList'
```