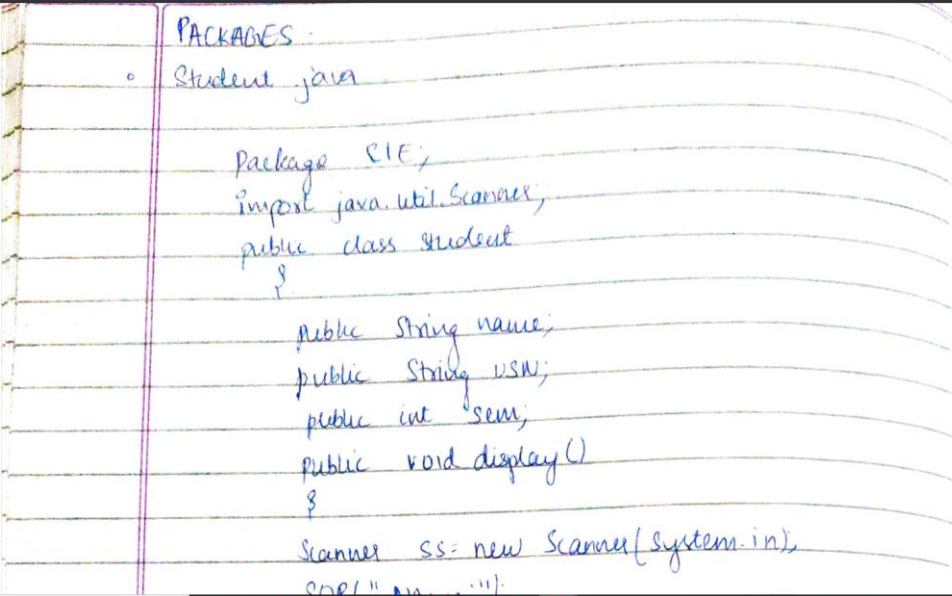


LAB PROGRAM 6

Create a package CIE which has two classes- Student and Internals. The class Personal has members like usn, name, sem. The class Internals has an array that stores the internal marks scored in five courses of the current semester of the student. Create another package SEE which has the class External which is a derived class of Student. This class has an array that stores the SEE marks scored in five courses of the current semester of the student. Import the two packages in a file that declares the final marks of n students in all five courses.



```
PACKAGES:  
• Student.java  
  
package CIE;  
import java.util.Scanner;  
public class Student  
{  
  
    public String name;  
    public String usn;  
    public int sem;  
    public void display()  
    {  
  
    }  
  
    Scanner ss = new Scanner(System.in);  
    char ch = 'y';  
    while(ch == 'y')  
    {  
        display();  
        ch = takeInput();  
    }  
}
```

```
Week 9-Lab Program 6 x OOI-Lab-Programs/Week9.pdf x (4) WhatsApp x New Tab x +
github.com/Nayana117/OOI-Lab-Programs/blob/master/WEEK9209/Week9.pdf
Incognito (2)

public int sem;
public void display()
{
Scanner ss= new Scanner(System.in);
SOP("Name:");
Name= ss.next();
SOP("USN:");
USN=ss.nextInt();
SOP("Sem:");
sem=ss.nextInt();
}
}
```

Type here to search

```
Week 9-Lab Program 6 x OOI-Lab-Programs/Week9.pdf x (4) WhatsApp x New Tab x +
github.com/Nayana117/OOI-Lab-Programs/blob/master/WEEK9209/Week9.pdf
Incognito (2)

Internals.java

package CIE;
import java.util.Scanner;

public class Internals extends Student
{
public double sem ciem[];
public void display()
{
}
```

Type here to search

```
Week 9-Lab Program 6 x OOI-Lab-Programs/Week9.pdf x (4) WhatsApp x New Tab x +
github.com/Nayana117/OOI-Lab-Programs/blob/master/WEEK9/209/Week9.pdf Incognito (2)

ciem = new double [5];
Scanner ss = new Scanner (System.in);
SOP(" CIE marks:");
for (int i=0; i<5; i++)
    ciem[i] = ss.nextDouble();
}

External - java

package SEE;
import java.util.Scanner;
import CIE.*;
```

```
Week 9-Lab Program 6 x OOI-Lab-Programs/Week9.pdf x (4) WhatsApp x New Tab x +
github.com/Nayana117/OOI-Lab-Programs/blob/master/WEEK9/209/Week9.pdf Incognito (2)

import CIE.*;
public class Ext extends CIE.Student {
    public double seem[];
    public void display() {
        seem = new double [5];
        Scanner ss = new Scanner (System.in);
        SOP(" SEE marks:");
        for (int i=0; i<5; i++)
            seem[i] = ss.nextDouble();
    }
}
```

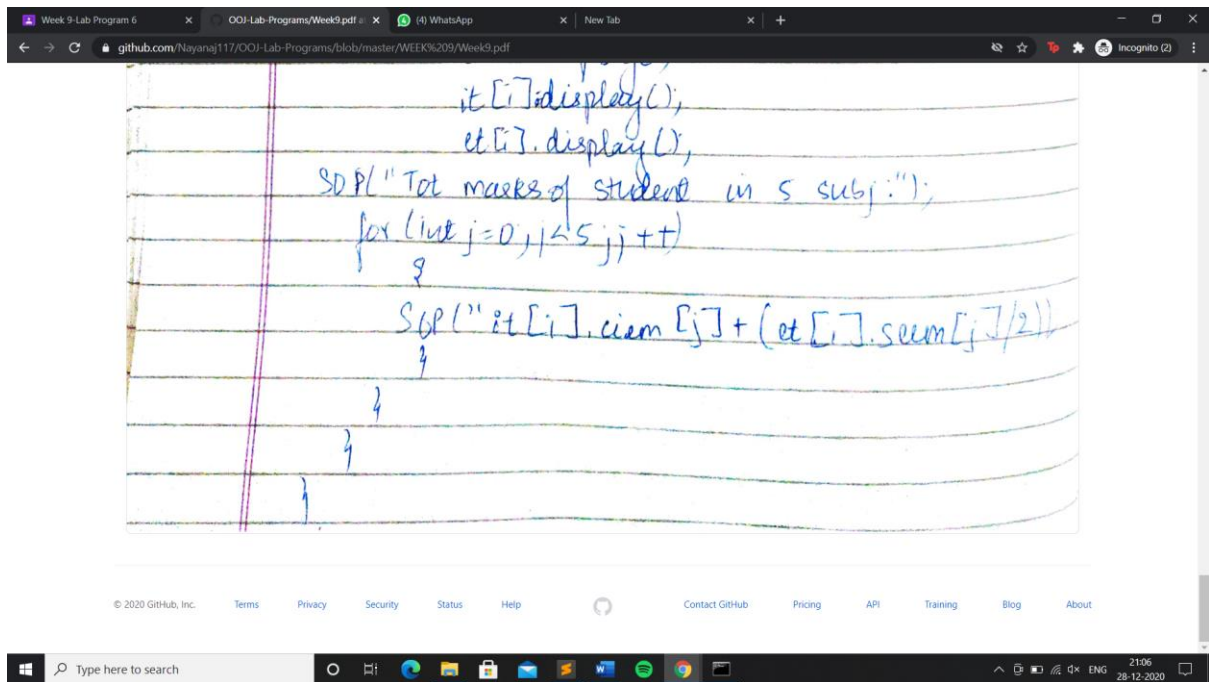
```
Week 9-Lab Program 6 x OOI-Lab-Programs/Week9.pdf x (4) WhatsApp x New Tab x +
github.com/Nayana117/OOI-Lab-Programs/blob/master/WEEK9/209/Week9.pdf Incognito (2)

Main.java

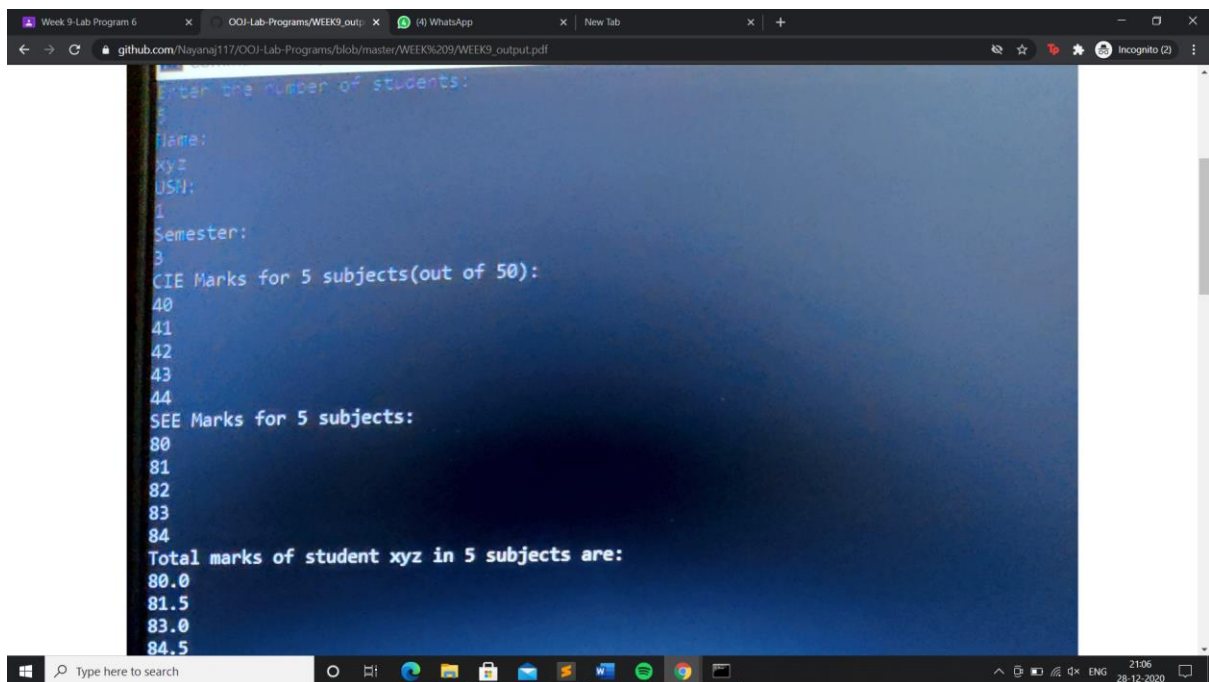
import CIE.*;
import SEE.*;
import java.util.Scanner;
public class Main
{
    public static void main (String args[])
    {
        int n;
        Scanner ss = new Scanner(System.in);
        SDP("Enter no of students");
        n = ss.nextInt();
        CIE.Student st[] = new CIE.Student[n];
```

```
Week 9-Lab Program 6 x OOI-Lab-Programs/Week9.pdf x (4) WhatsApp x New Tab x +
github.com/Nayana117/OOI-Lab-Programs/blob/master/WEEK9/209/Week9.pdf Incognito (2)

CIE.Student st[] = new CIE.Student[n];
CIE.Internals it[] = new CIE.Internals[n];
SEE.Externals et[] = new SEE.Externals[n];
for (int i=0; i<n; i++)
{
    st[i] = new CIE.Student();
    it[i] = new CIE.Internals();
    et[i] = new SEE.Externals();
    st[i].display();
    it[i].display();
    et[i].display();
    SDP("Tot marks of student in 5 subj:");
    for (int j=0; j<5; j++)
```

OUTPUT:



```
Week 9-Lab Program 6 x OOI-Lab-Programs/WEEK9_out: x (4) WhatsApp x New Tab x +
github.com/Nayanaj117/OOI-Lab-Programs/blob/master/WEEK9%209/WEEK9_output.pdf
83.0
84.5
86.0
Name:
abc
USN:
2
Semester:
3
CIE Marks for 5 subjects(out of 50):
31
32
33
34
35
SEE Marks for 5 subjects:
75
76
77
78
79
Total marks of student abc in 5 subjects are:
68.5
70.0
71.5
73.0
74.5
Type here to search 2106 28-12-2020
```