Lab 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 5 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 5 courses of the current sem of the student. Import the two packages in a file that declares the final marks of n students
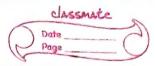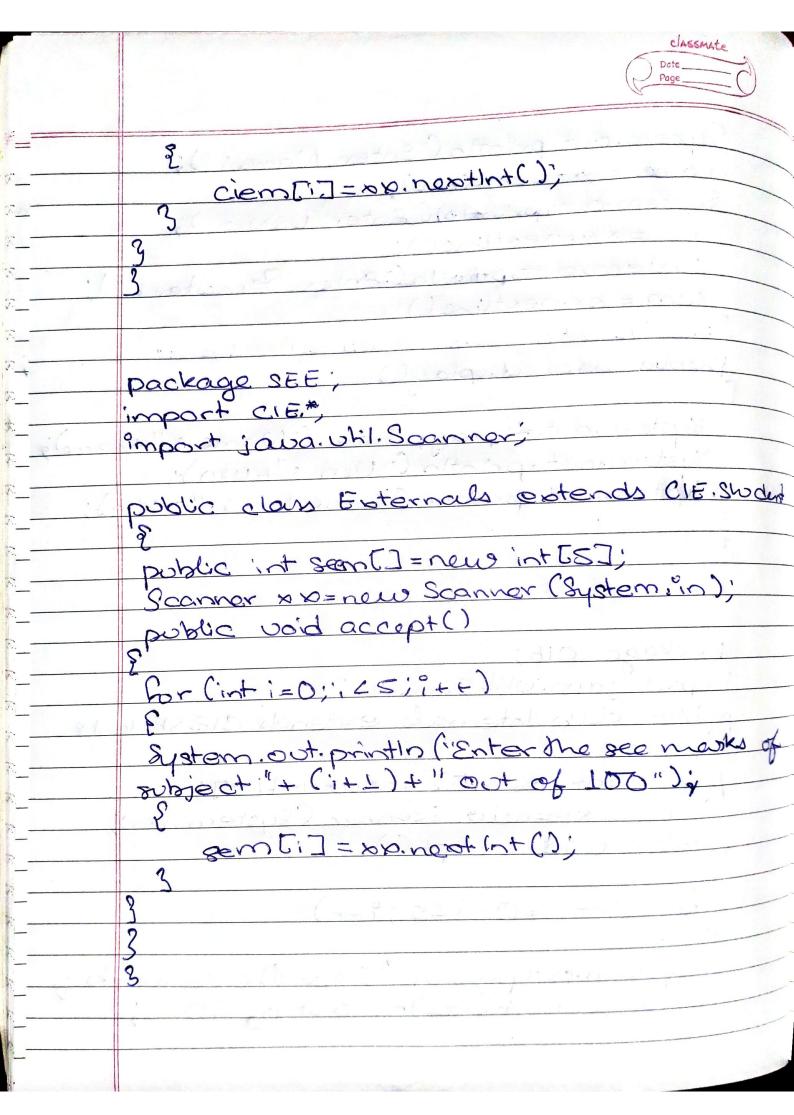
package CIE;

• student

```
import java.util.Scanner;
public class Student
{
    String name, usn;
    int sem;
    Scanner xx=new Scanner (System.in);
    public void accept()
    public void accept()
    {
```
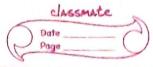
```java
System.out.println("Enter Name : ");
name = xx.nextLine();
System.out.println("Enter USN : ");
usn = xx.nextLine();
System.out.println("Enter Semester : ");
sem = xx.nextLine();
}

public void display()
{
    System.out.display println("Name : " + name);
    System.out.println("Usn : " + usn);
    System.out.println("Semester : " + sem);
}
}


package CIE;
import java.util.Scanner;
public class Internals extends CIE.Student
{

public int ciem[] = new int[5];
Scanner xx = new Scanner(System.in);
public void accept()
{
    for (int i = 0; i < 5; i++)
    {
        System.out.println("Enter the cie marks of
            subject " + (i+1) + " out of 50");
```

```java
        {
            ciem[i]=xx.nextInt();
        }
    }
}


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

public class Externals extends CIE.Student
{
    public int seen[]=new int[5];
    Scanner xx=new Scanner (System.in);
    public void accept()
    {
        for (int i=0;i<5;i++)
        {
            System.out.println("Enter the see marks of
            subject "+ (i+1)+" out of 100");
            {
                sem[i]=xx.nextInt();
            }
        }
    }
}
```

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

class Totalmarks
{
    public static void main (String sss[])
    {
        int i, j, n;
        int total[] = new int[5];
        Scanner xx = new Scanner (System.in);
        System.out.println ("Enter the number of
                students");
        n = xx.nextInt();
        CIE.Student s[] = new CIE.Student[n];
        CIE.Internals ci[] = new CIE.Internals[n];
        SEE.Externals se[] = new SEE.Externals[n];
        for (i=0; i<n ; i++)
        {
            System.out.println ("Enter Student "+(i+1)+"
                    details");
            s[i] = new CIE.Student();
            s[i]. accept();
            ci[i] = new CIE.Internals();
            ci[i].accept();
            se[i] = new SEE.Externals();
            se[i].accept()
        }
        for (i=0; i<n; i++)
```

}

```
System.out.println("Details of Student"
                + (i+1));
s[i].display();
for (j=0; j<5; j++)
{
total[j]=c[i].ciem[j]+(se[i].deem[j]/2
System.out.println("Total marks in subject "
(j+1)+ is " total[j]);
```

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