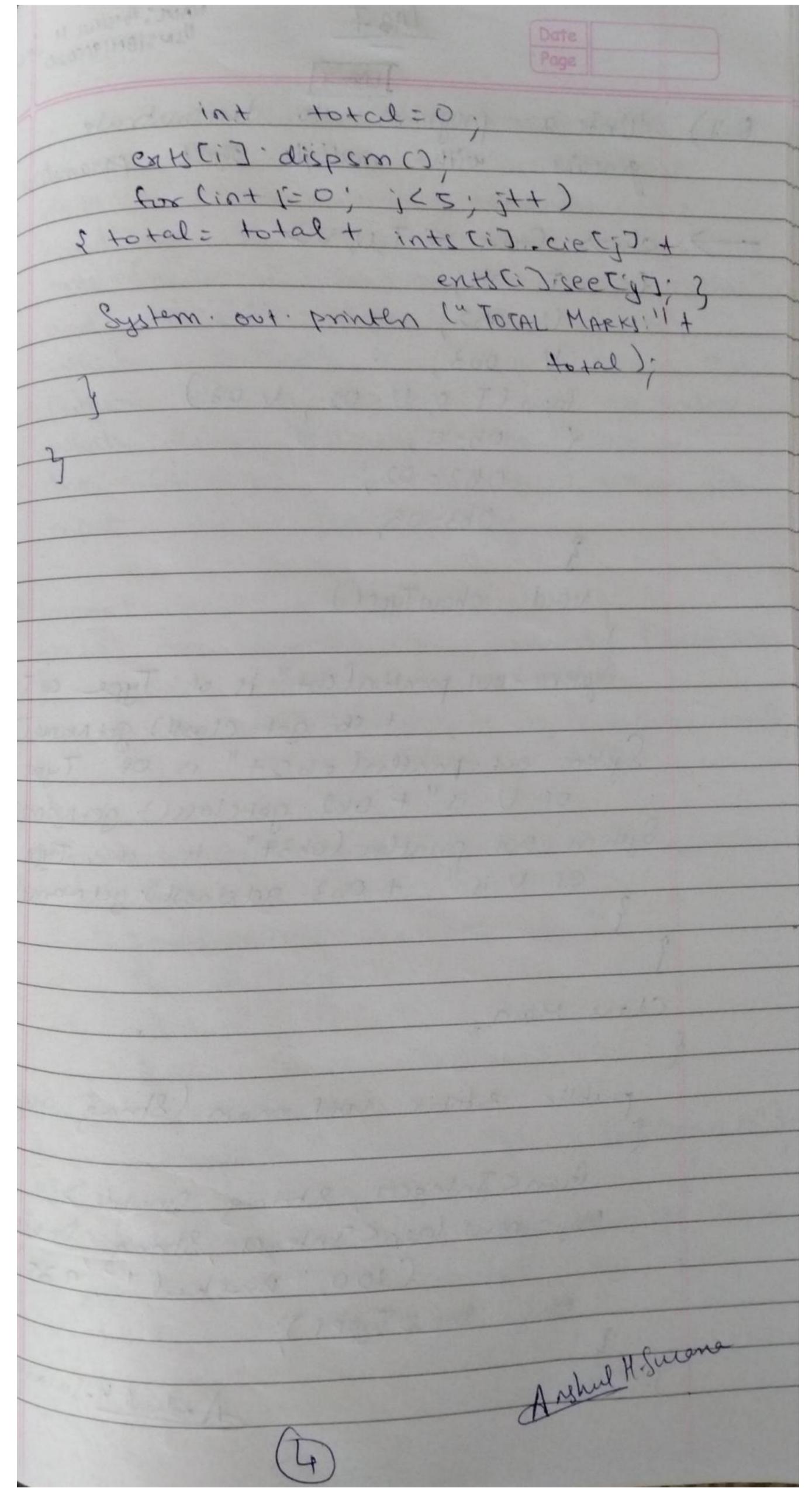NAME: ANSHUL H. SURANA
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[LAB-6]

Q-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 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.

→ **Internals**

```java
package CIE;
import java.util.Scanner;
public class Internals extends Student
{
    public int cie[] = new int[5];
    Scanner get = new Scanner(System.in);

    public void get()
    { System.out.println("Enter Details");
    System.out.println("USN :");
        usn = get.next();
    System.out.println("NAME:");
        name = get.next()
```

Anshul H.Sur

```java
System.out.println (" SEMESTER");
sem = get.nextInt();
System.out.println (" CIE Marks");
for (int i=0; i< 15; i++)
{ System.out.println ("Subject " (i+1));
cie [i] = get.nextInt();
}
public void disp()
{ System.out.println (" \n USN :"+usn);
System.out.println (" NAME : " +name);
System.out.println (" SEMESTER :"+sem);
System.out.println (" CIE :");
for (int i= 0; i< 5; i++).
{ System.out.println (cie [i]); }
System.out.println ("SEE: ");
}
}
```

Student

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

public class Student
{ public String usn, name;
public int sem;
}
```

Externals.

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

Arshad H. Suave

(2)

```java
public class Externals extends CIE student
{ public int see[]= new int[5];
    Scanner get= new Scanner (System.in);

    public void getm()
    { for (int i=0; i<5; i++)
        { System.out.println (see[i]);
        }
    }
}
```

Total Marks

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


class TotalMarks
{ public static void main (String args[])
    { Scanner get= new Scanner (System.in);
        int n;
        System.out.println ("enter the no of students:");
        n= get.nextInt();
        CIE.Internals ints[]= new CIE. Internals [n];
        SEE.Externals ents[]= new SEE.Externals [n];

        for (int i= 0; i<n; i++)
        { int s[i] = new CIE. Internals ();
          ents[i]= new SEE. Externals ();
          ints[i]= get i()
        }
        for (int i=0 ; i<n; i++)
        { int s[i]. dispi(),
```

(3)

Anshul H.Sowene

```
        int    total = 0;
    ents[i]·dispsm();
    for (int j=0;  j<5; j++)
    { total = total + ints[i]..cie[j] +
                    ents[i]see[j]; }
    System·out·printen ("TOTAL MARKS" +
                    total);
  }
}
```

Anshul H.Surana

(4)