VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum -590014, Karnataka.

LAB REPORT
on

Object Oriented Java Programming

Submitted by

OVHAY KUMAR(1BM21CS122)

in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING

B.M.S. COLLEGE OF ENGINEERING
(Autonomous Institution under VTU)
BENGALURU-560019
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B. M. S. College of Engineering,

Bull Temple Road, Bangalore 560019

(Affiliated To Visvesvaraya Technological University, Belgaum)

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that the Lab work entitled "**Object Oriented Java Programming"** carried out by OVHAY KUMAR **(1BM21CS122),** who is bonafide student of **B. M. S. College of Engineering.** It is in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visvesvaraya Technological University, Belgaum during the year 2022-23. The Lab report has been approved as it satisfies the academic requirements in respect of Data Structures Lab **- (21CS3PCOOJ) work** prescribed for the said degree.

SONIKA
Assistant Professor
Department of CSE
BMSCE, Bengaluru

Dr. Jyothi S Nayak
Professor and Head
Department of CSE
BMSCE, Bengaluru

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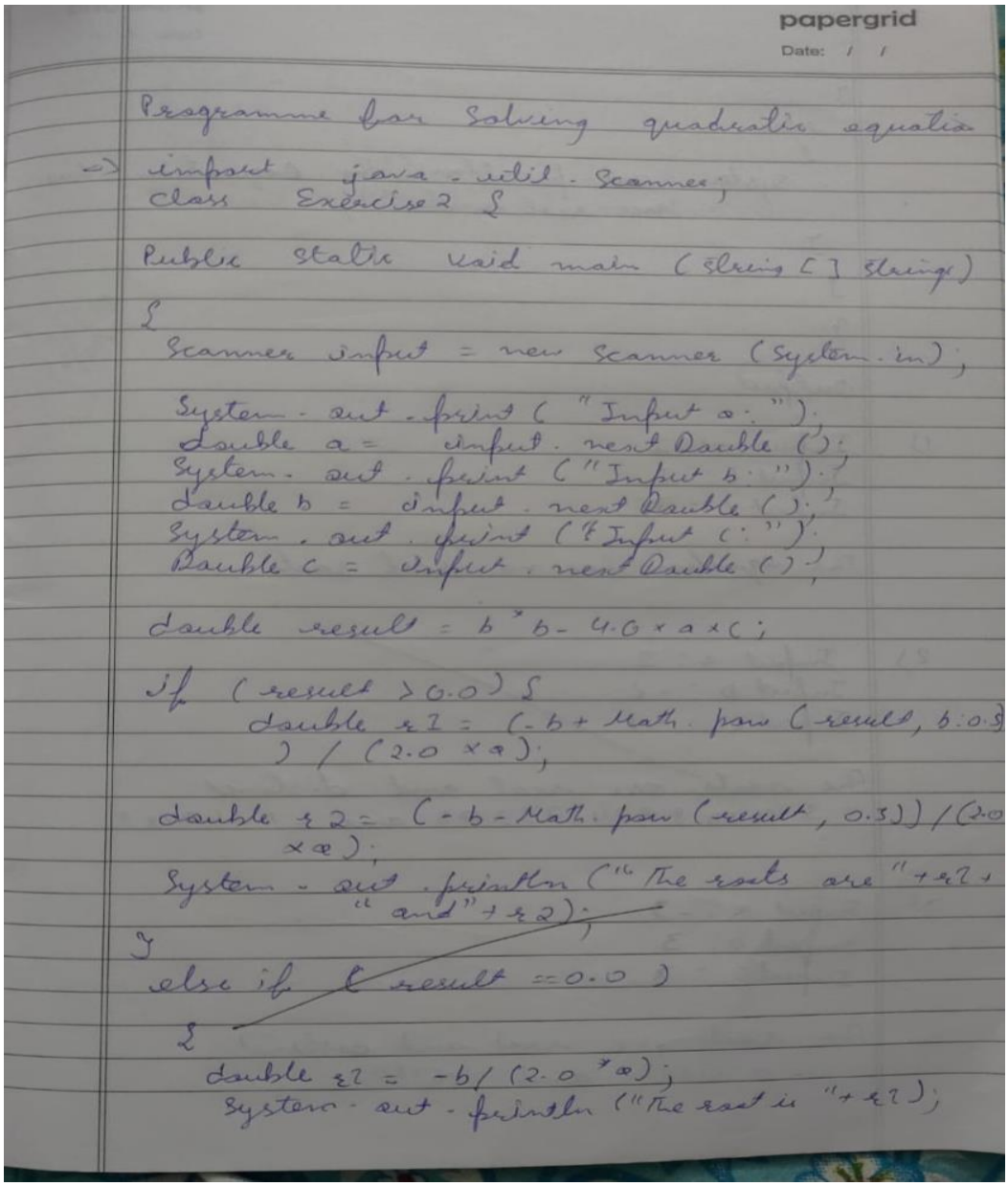
Index Sheet

Course Outcome

CO1	Apply the knowledge of Java concepts to find the solution for a given problem.
CO2	Analyse the given Java application for correctness/functionalities.
CO3	Develop Java programs / applications for a given requirement.
CO4	Conduct practical experiments for demonstrating features of Java.

PROGRAM 1

1) Develop a Java program that prints all real solutions to the quadratic equation ax2+bx+c = 0. Read in a, b, c and use the quadratic formula. If the discriminate b2 -4ac is negative, display a message stating that there are no real solutions.



```
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Programme for Solving quadratic equatio
=> import java.util.Scanner;
class Exercise2 {

Public static void main (String[] String)
{
  Scanner input = new Scanner (System.in);

  System.out.print("Input a:");
  Double a = input.nextDouble();
  System.out.print("Input b:");
  Double b = input.nextDouble();
  System.out.print("Input c:");
  Double c = input.nextDouble();

  double result = b*b - 4.0*a*c;

  if (result > 0.0) {
      double r1 = (-b + Math.pow(result, b:0.5
      ) / (2.0 * a);

  double r2 = (-b - Math.pow(result, 0.5)) / (2.0
      * a);
  System.out.println("The roots are "+r1+
      " and "+r2);
}
else if (result == 0.0)
{
  double r1 = -b/(2.0 * a);
  System.out.println("The root is "+r1);
```
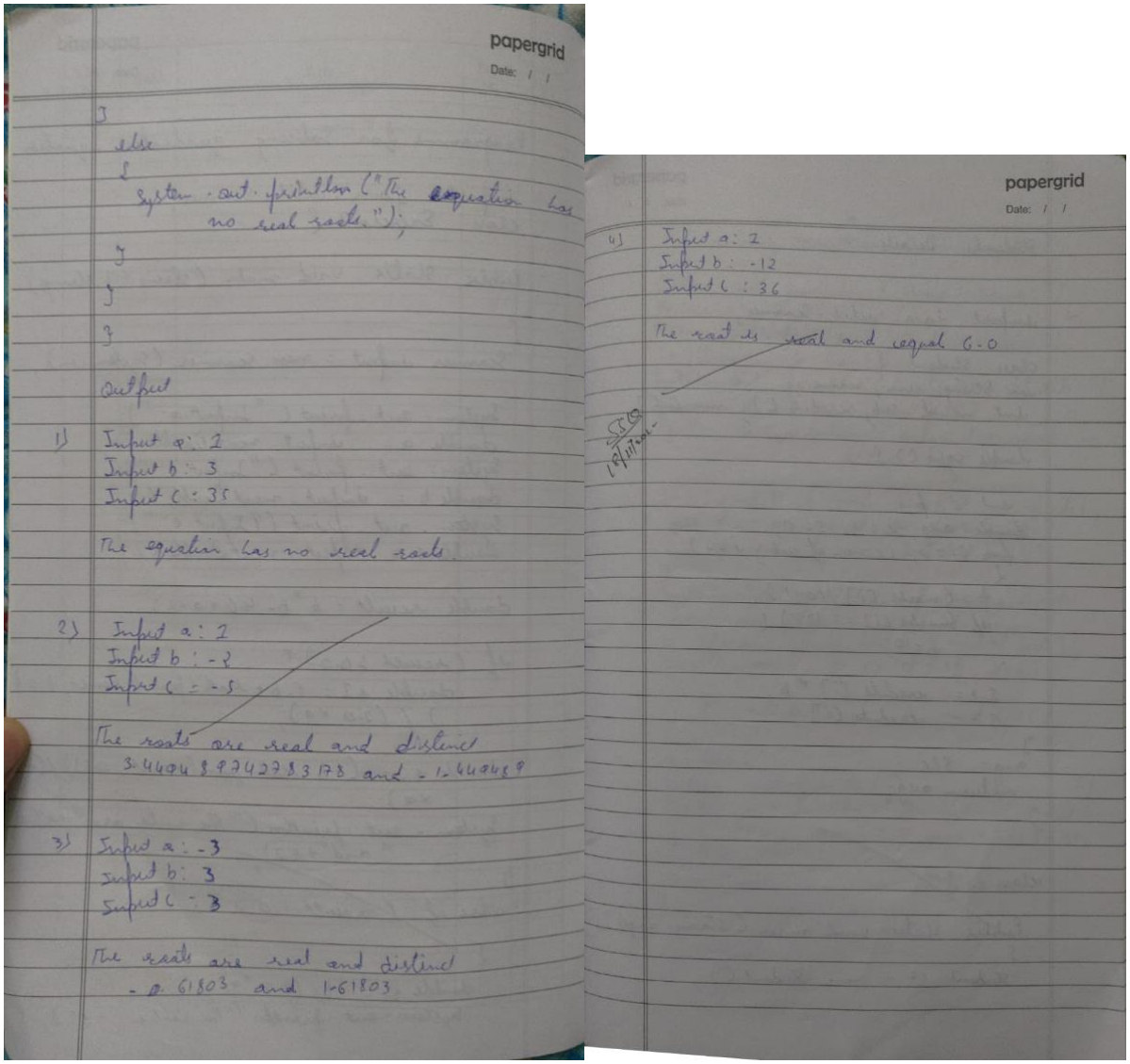



```
}
else
{
System.out.println("The equation has no real roots.");
}
}
}
```

Output

1) Input a: 1
Input b: 3
Input c: 35

The equation has no real roots

2) Input a: 1
Input b: -2
Input c: -5

The roots are real and distinct
3.4494897427831781 and -1.4494897

3) Input a: -3
Input b: 3
Input c: 3

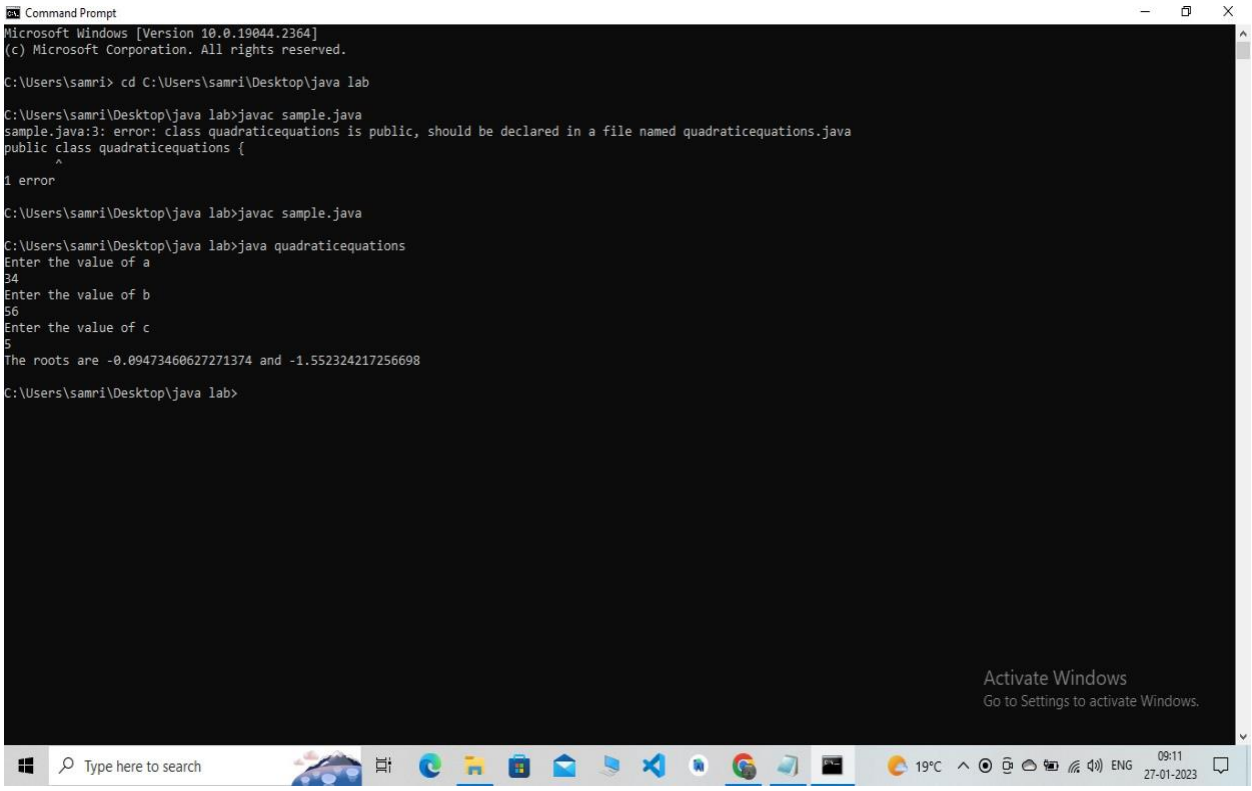
The roots are real and distinct
-0.61803 and 1.61803

4) Input a: 1
Input b: -12
Input c: 36

The root is real and equal 6.0

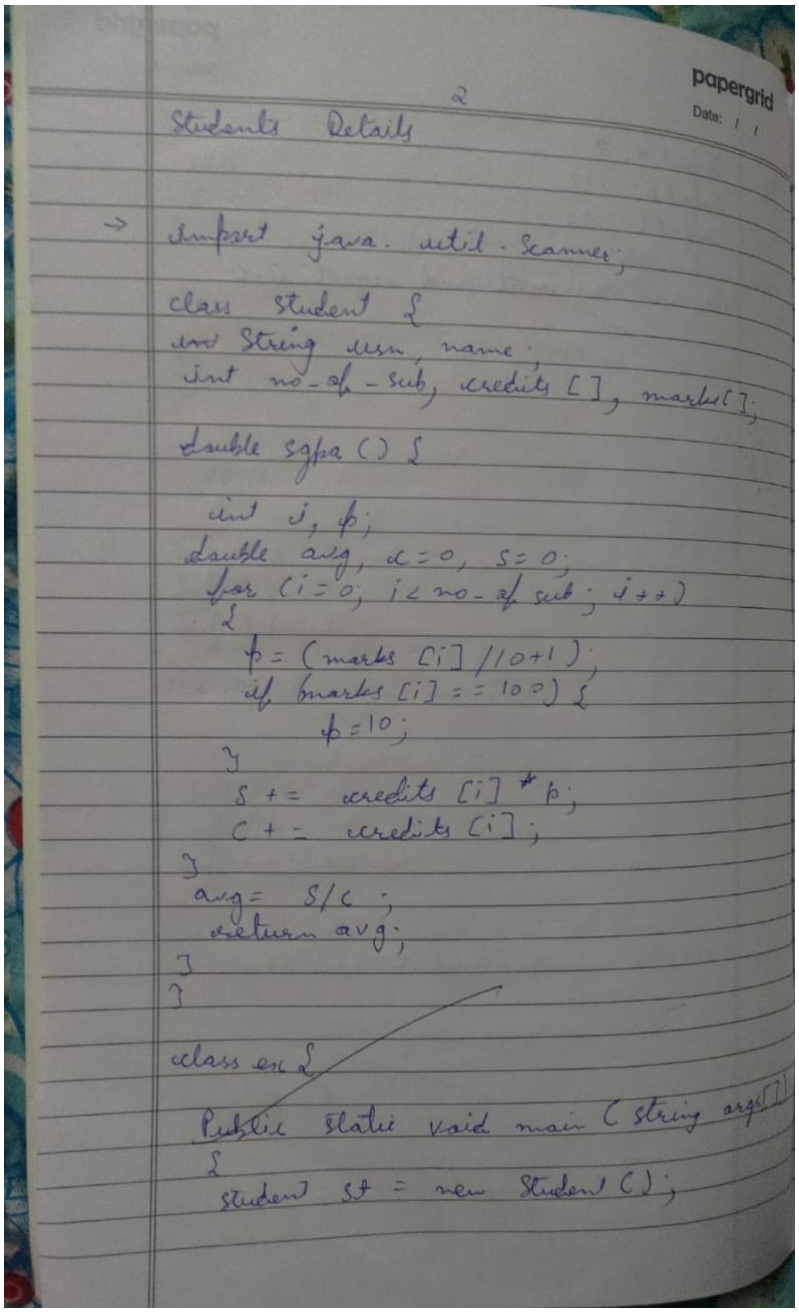
SSC Edition

OUTPUT:



PROGRAM 2

Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.



2

papergrid
Date: / /

Students Details

→ import java.util.Scanner;

class student {
String usn, name;
int no_of_sub, credits[], marks[];

Double sgpa() {

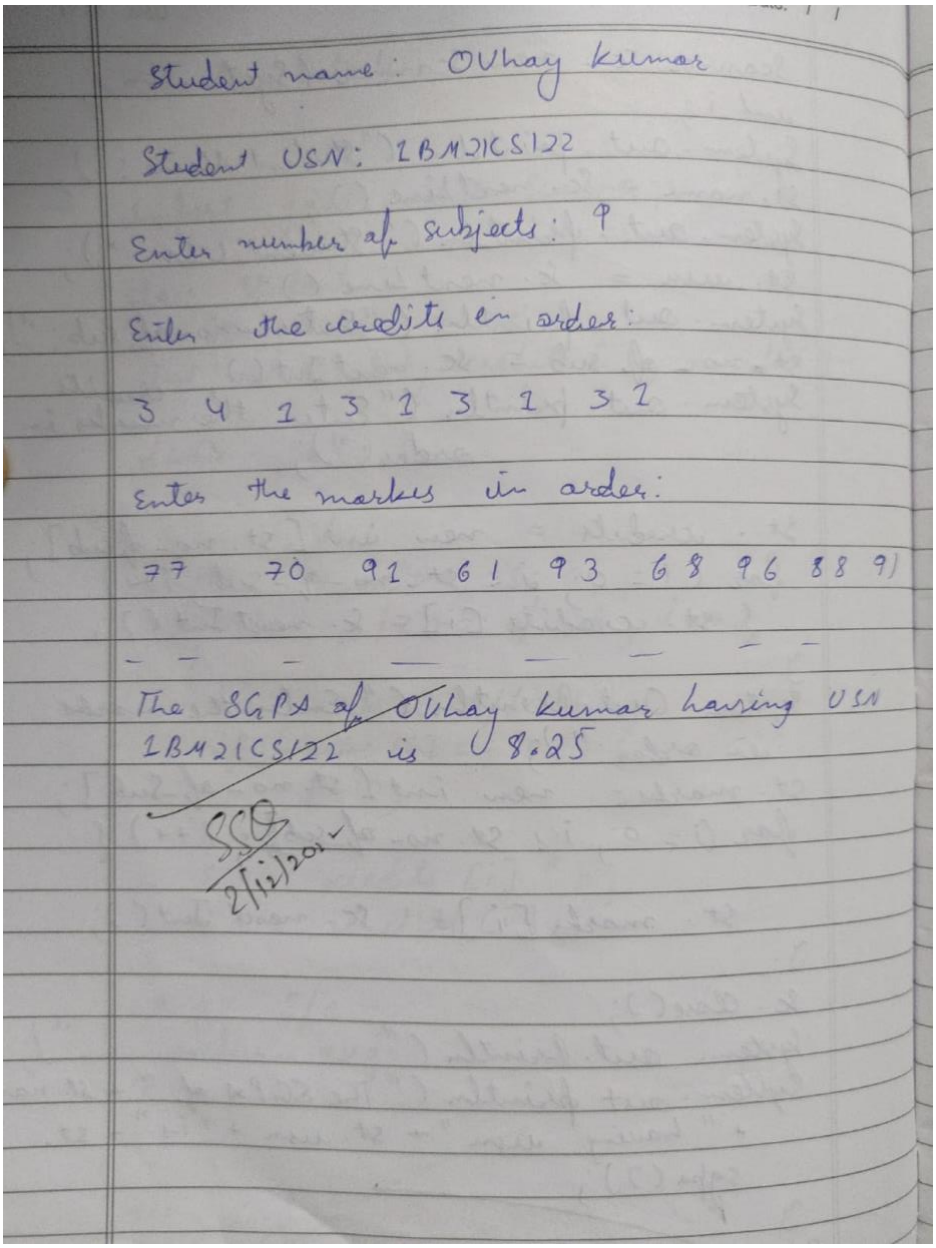
int i, p;
Double avg, c=0, s=0;
for (i=0; i<no_of_sub; i++)
{
p = (marks[i]/10+1);
if (marks[i]==100) {
p=10;
}
s += credits[i] * p;
c += credits[i];
}
avg = s/c;
return avg;
}
}

class ex {

Public static void main (String args[])
{
student st = new Student();

```
Scanner sc = new Scanner (System.in);
int i;
System.out.println ("Student Name:");
st.name = sc.nextLine();
System.out.println ("Student USN:");
st.usn = sc.nextLine();
System.out.println ("Enter no.of sub:");
st.no_of_sub = sc.nextInt(); credits
System.out.println ("Enter the marks in
                    order:");

st.credits = new int [st.no_of_sub];
for (i=0; i<st.no_of_sub; i++)
  { st.credits[i] = sc.nextInt();
}
System.Out.Println ("Enter the marks
  in order:");
st.marks = new int [st.no_of_sub];
for (i=0; i<st.no_of_sub; i++) {

    st.marks[i] = sc.nextInt();
}
sc.close();
System.out.Println ("_ _ _ _ _");
System.out.println ("The SGPA of " + st.name
  + " having usn " + st.usn + " is " + st.
    sgpa());
}
}
```

Output



Student name: OVhay kumar

Student USN: 1BM21CS122

Enter number of subjects: 9

Enter the credits in order:

3 4 1 3 1 3 1 3 2

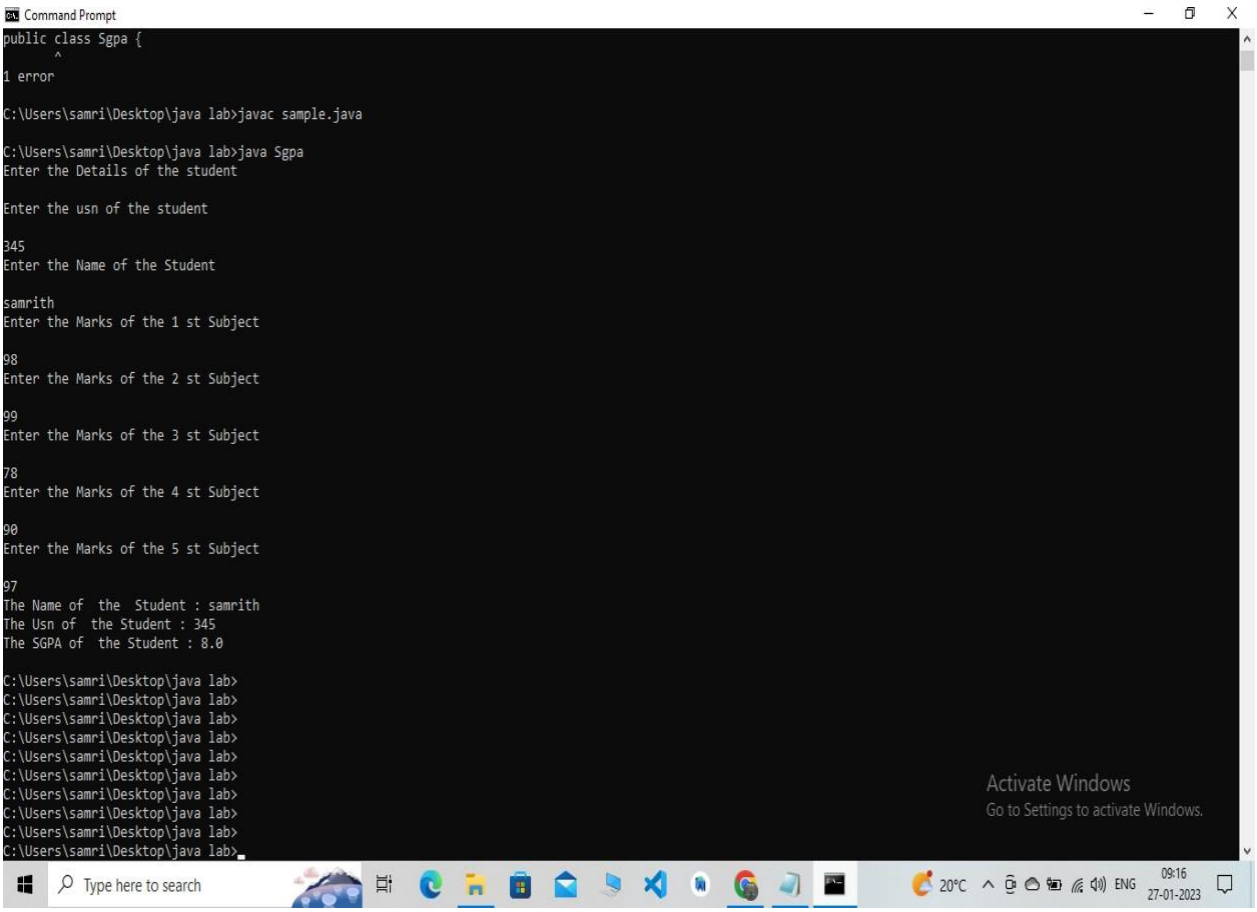
Enter the marks in order:

77 70 91 61 93 68 96 88 91

The SGPA of OVhay kumar having USN 1BM21CS122 is 8.25

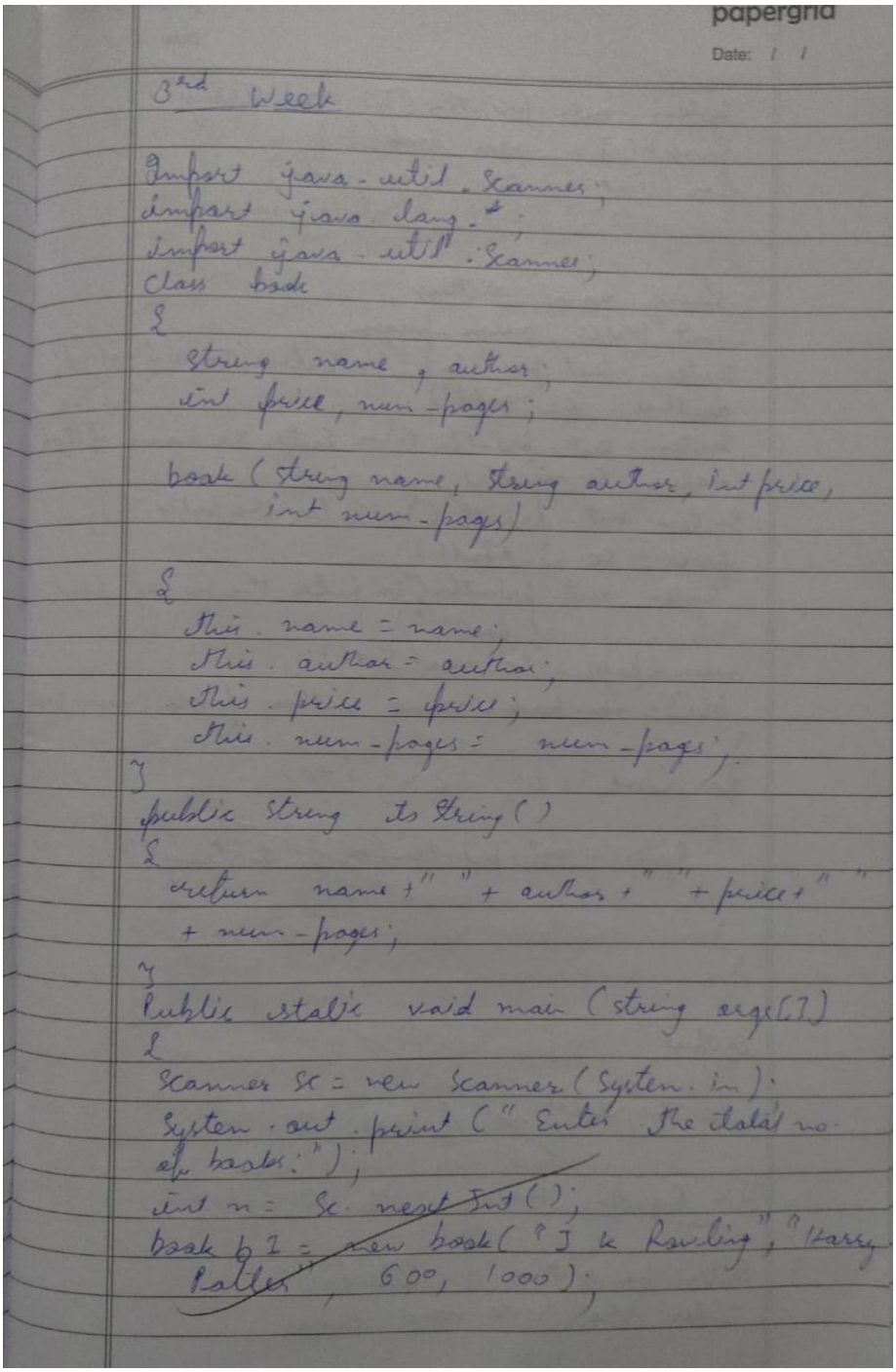
SSO
2/12/2021

OUTPUT:


Command Prompt
public class Sgpa {
^
1 error
C:\Users\samri\Desktop\java lab>javac sample.java
C:\Users\samri\Desktop\java lab>java Sgpa
Enter the Details of the student
Enter the usn of the student
345
Enter the Name of the Student
samrith
Enter the Marks of the 1 st Subject
98
Enter the Marks of the 2 st Subject
99
Enter the Marks of the 3 st Subject
78
Enter the Marks of the 4 st Subject
90
Enter the Marks of the 5 st Subject
97
The Name of the Student : samrith
The Usn of the Student : 345
The SGPA of the Student : 8.0
C:\Users\samri\Desktop\java lab>
Activate Windows
Go to Settings to activate Windows.
Type here to search
20°C
ENG
09:16
27-01-2023

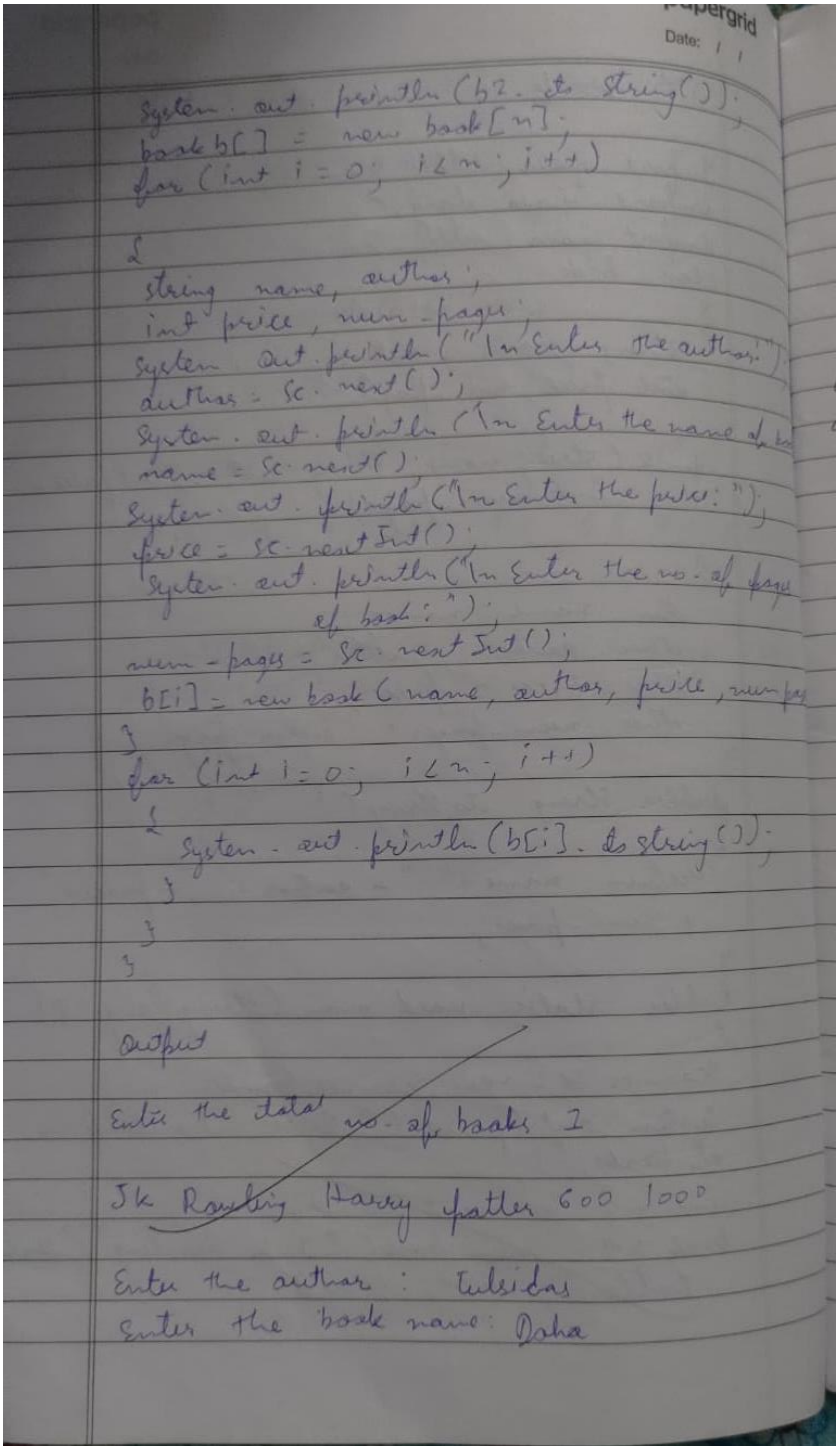
PROGRAM 3

Create a class Book which contains four members: name, author, price, num_pages. Include a constructor to set the values for the members. Include methods to set and get the details of the objects. Include a toString( ) method that could display the complete details of the book. Develop a Java program to create n book objects



3rd Week

```
import java.util.Scanner;
import java.lang.*;
import java.util.*;
class book
{
  String name, author;
  int price, num_pages;

  book(String name, String author, int price,
       int num_pages)

  {
    this.name = name;
    this.author = author;
    this.price = price;
    this.num_pages = num_pages;
  }
  public String toString()
  {
    return name+" "+author+" "+price+" "
    +num_pages;
  }
  Public static void main(String args[])
  {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter the total no.
    of books:");
    int n = sc.nextInt();
    book b1 = new book("J k Rowling", "Harry
      Potter", 600, 1000);
```



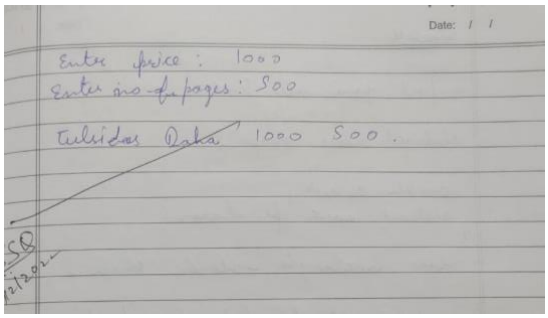
```
System.out.println(b2.toString());
book b[] = new book[n];
for(int i=0; i<n; i++)
{
string name, author;
int price, num_pages;
System.out.println("\n Enter the author");
author = sc.next();
System.out.println("\n Enter the name of bo
name = sc.next();
System.out.println("\n Enter the price:");
price = sc.nextInt();
System.out.println("\n Enter the no. of page
                    of book:");
num_pages = sc.nextInt();
b[i] = new book(name, author, price, num_pa
}
for(int i=0; i<n; i++)
{
  System.out.println(b[i].toString());
  }
}
}
```

output

Enter the data no. of books 1

JK Rowling Harry potter 600 1000

Enter the author : Tulsidas
Enter the book name: Disha

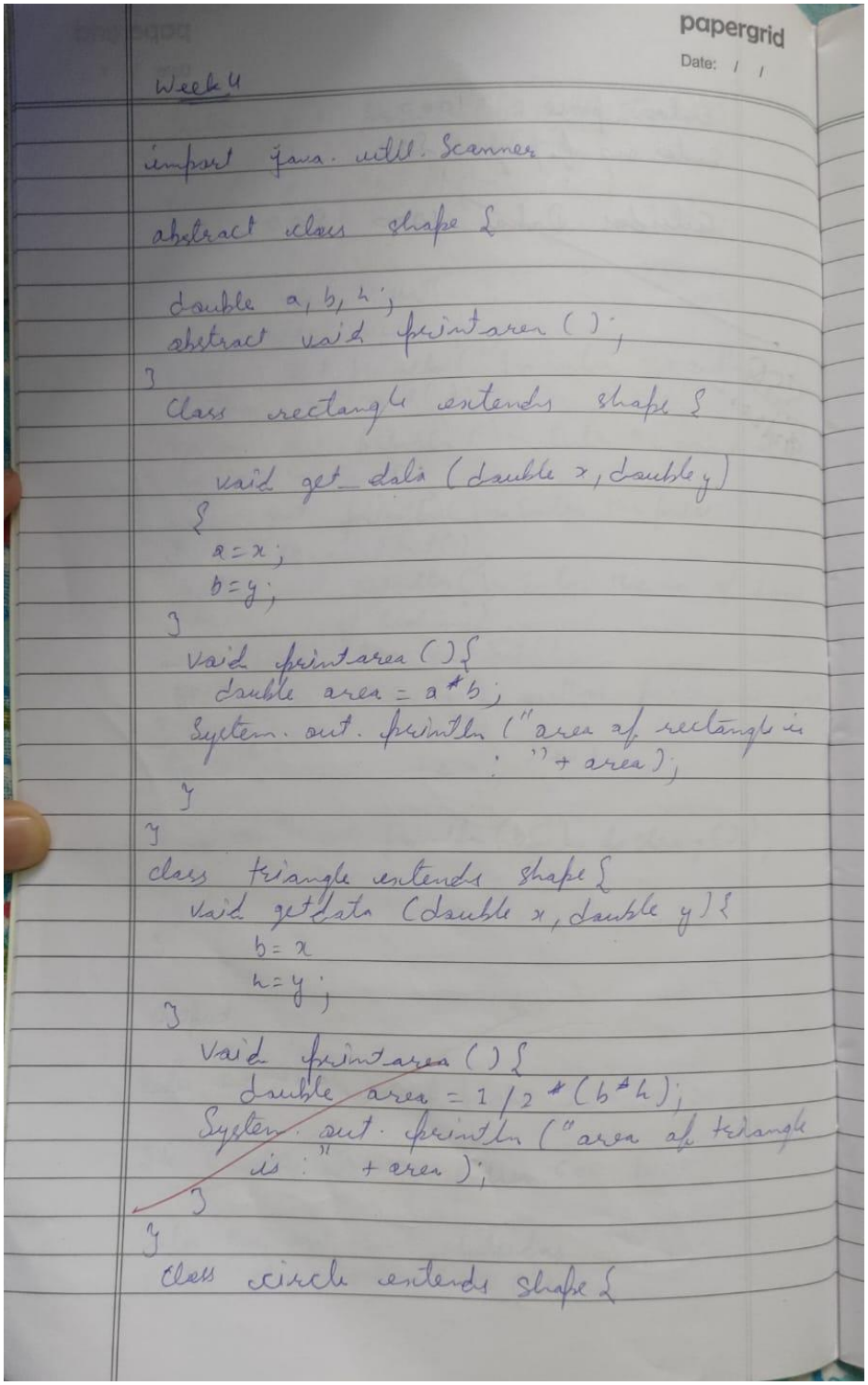


OUTPUT:

```
Command Prompt
        at java.base/java.util.Scanner.next(Scanner.java:1598)
        at java.base/java.util.Scanner.nextDouble(Scanner.java:2569)
        at Bookdetails.main(sample.java:59)

C:\Users\samri\Desktop\java lab>java Bookdetails
Enter the no of Books

2
Enter the Details of the1th Book

Enter the Title of the Book

CodedTriangles
Enter the Author of the Book

Sreedharpriyan
Enter the Price of the Book

345
Enter the Pages of the Book

190
Enter the Details of the2th Book

Enter the Title of the Book

Annakaranina
Enter the Author of the Book

LeoTosltoy
Enter the Price of the Book

567
Enter the Pages of the Book

45
Title   Author  Price   Numberofpages

CodedTriangles  Sreedharpriyan  345.0   190

Annakaranina    LeoTosltoy      567.0   45


C:\Users\samri\Desktop\java lab>
```

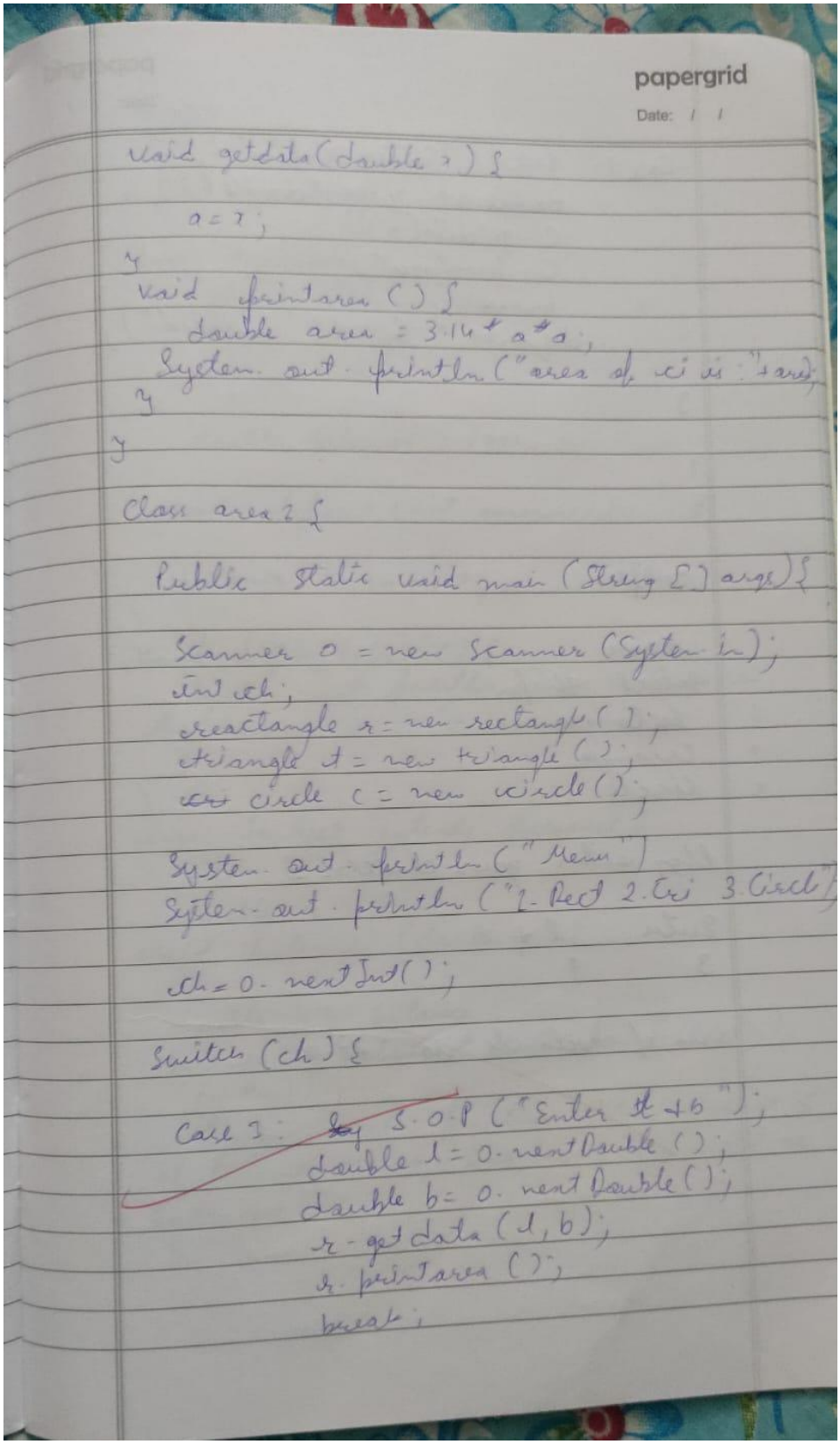
PROGRAM 4

Develop a Java program to create an abstract class named Shape that contains two integers and an empty method named printArea( ). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class Shape. Each one of the classes contain only the method printArea( ) that prints the area of the given shape.



Week 4

```
import java.util.Scanner

abstract class shape {

    double a, b, h;
    abstract void printarea();
}
class rectangle extends shape {

    void get_data(double x, double y)
    {
        a = x;
        b = y;
    }
    void printarea(){
        double area = a*b;
        System.out.println("area of rectangle is
                            : " + area);
    }
}
class triangle extends shape{
    void getData(double x, double y){
        b = x
        h = y;
    }
    void printarea(){
        double area = 1/2*(b*h);
        System.out.println("area of triangle
        is : " + area);
    }
}
class circle extends shape{
```



```
void getdata(double a) {
    a = a;
}
void printarea() {
    double area = 3.14 * a * a;
    System.out.println("area of ci is :" + area);
}
}

class area2 {

Public Static void main (String [] args) {

Scanner o = new Scanner (System.in);
int ch;
rectangle r = new rectangle();
triangle t = new triangle();
circle c = new circle();

System.out.println("Menu")
System.out.println("1. Rect 2. Cri 3. Circle")

ch = o.nextInt();

Switch (ch) {

Case 1: S.o.p("Enter ht & b");
        double l = o.nextDouble();
        double b = o.nextDouble();
        r.getdata(l, b);
        r.printarea();
        break;
```

Date: / /

```
Case 3: S.O.P("Enter radius");
        double r1 = 0.nextDouble();
        C.getData(r1);
        C.printArea();
        break;
Default: S.O.P("Invalid");

}
}
}
```

output

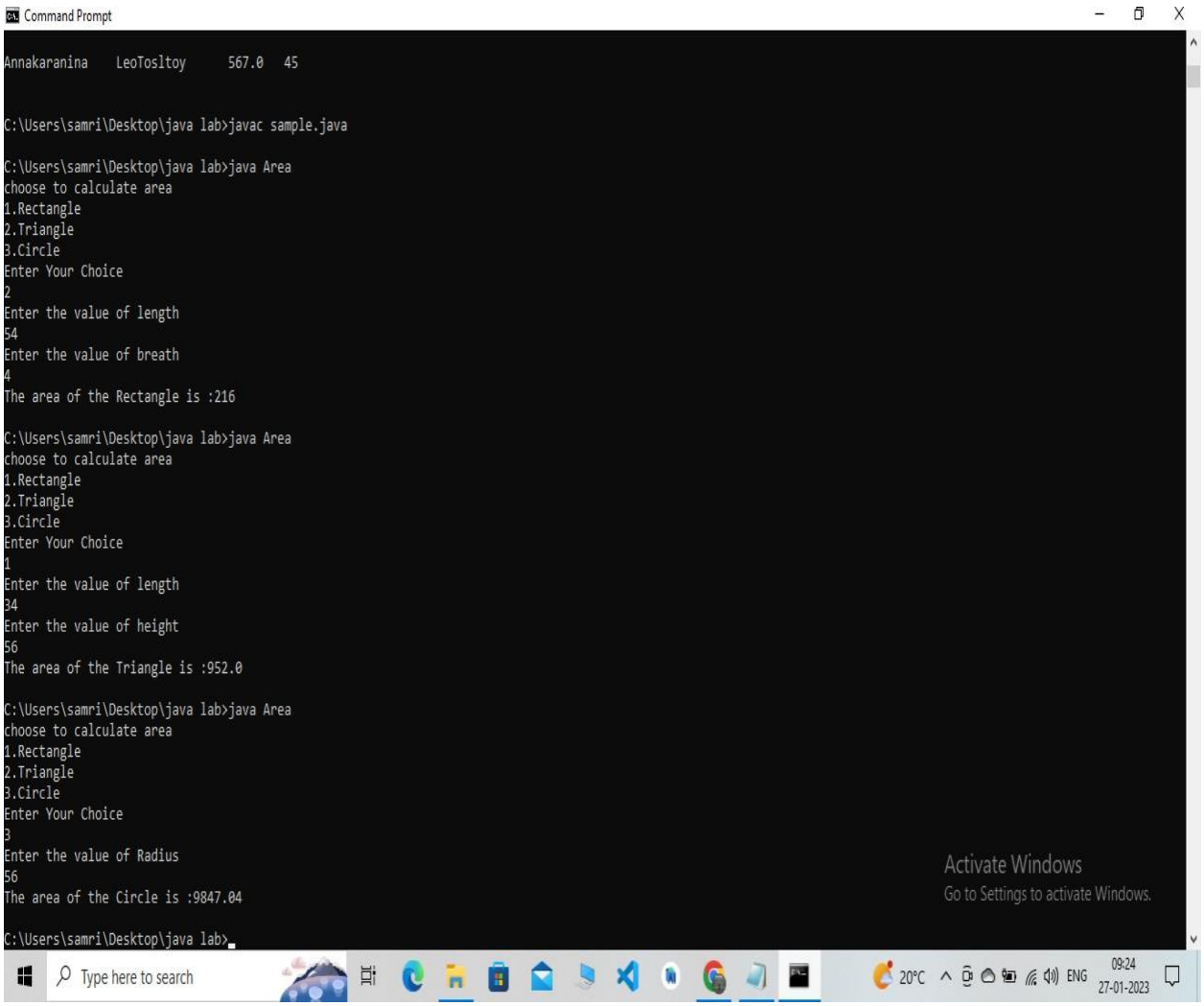
Menu
Select shape
1 Rectangle
2 Triangle
3 Circle

Plz enter your choice : 3

Enter l & b
3 9

area of rectangle is : 27.0

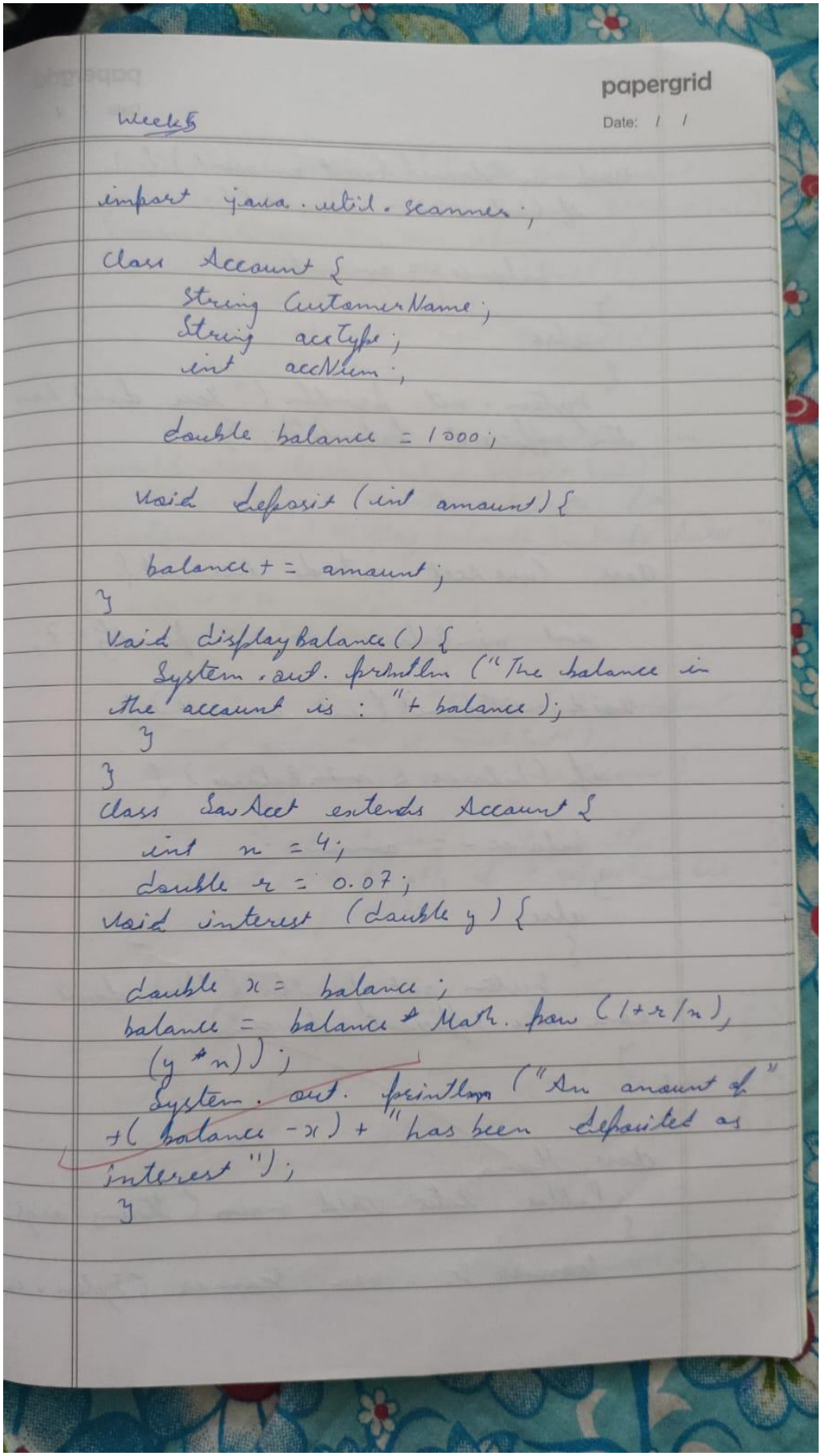
OUTPUT:



PROGRAM 5

Develop a Java program to create a class Bank that maintains two kinds of account for its customers, one called savings account and the other current account. The savings account provides compound interest and withdrawal facilities but no cheque book facility. The current account provides cheque book facility but no interest. Current account holders should also maintain a minimum balance and if the balance falls below this level, a service charge is imposed. Create a class Account that stores customer name, account number and type of account. From this derive the classes Cur-acct and Sav-acct to make them more specific to their requirements. Include the necessary methods in order to achieve the following tasks: a) Accept deposit from customer and update the balance.

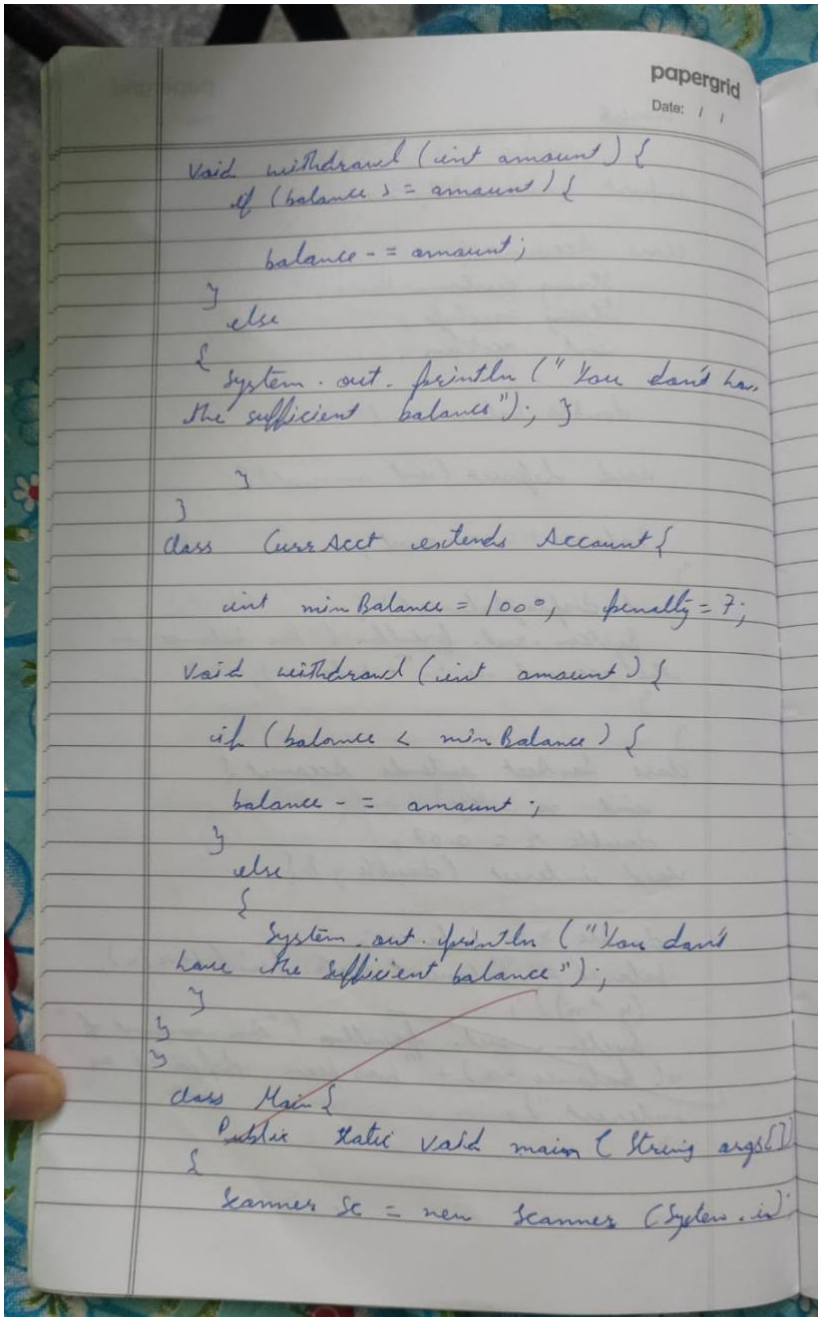
b) Display the balance. c) Compute and deposit interest d) Permit withdrawal and update the balance Check for the minimum balance, impose penalty if necessary and update the balance.



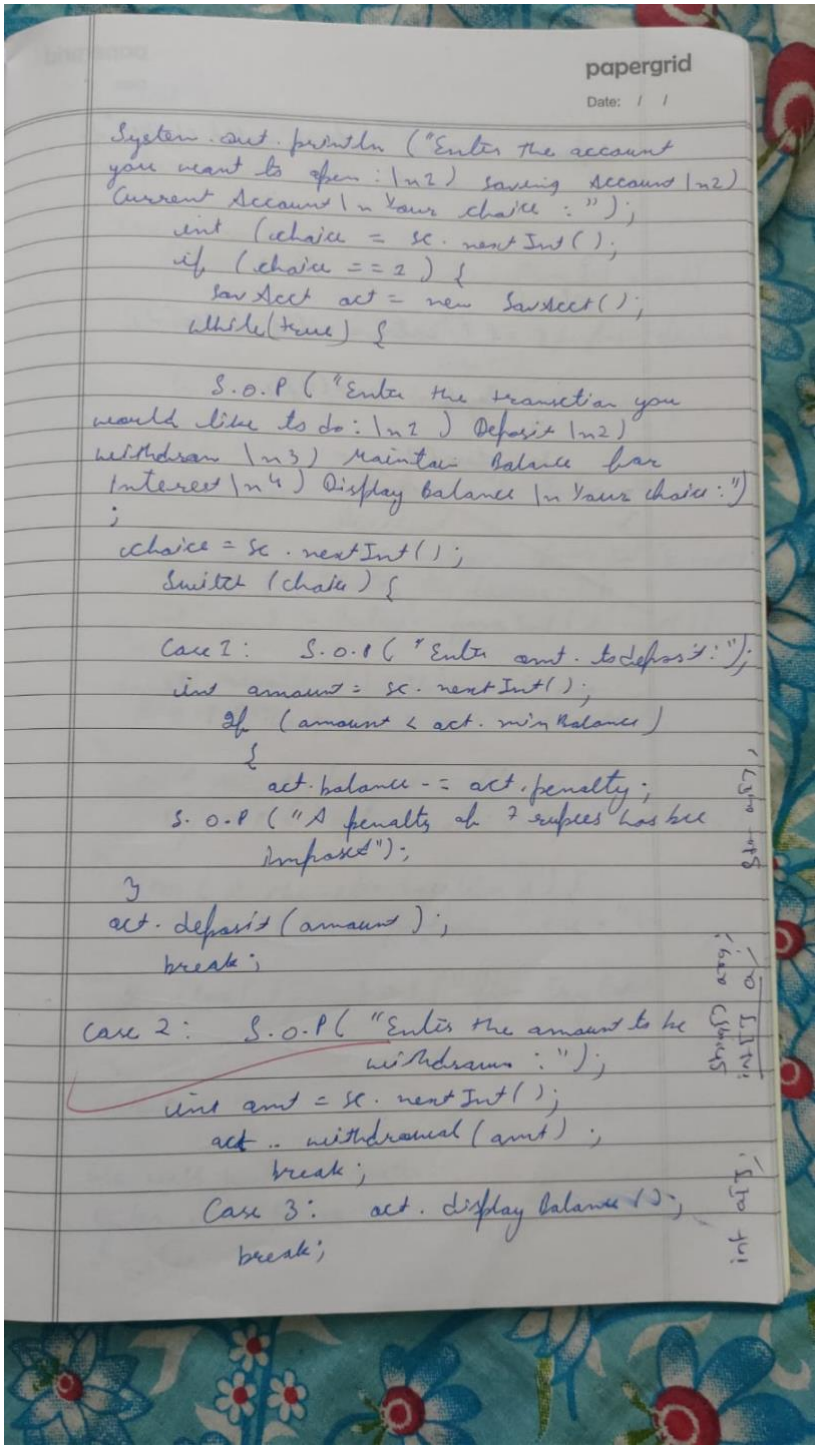
Week 5

Date: / /

```
import java.util.Scanner;

class Account {
    String CustomerName;
    String accType;
    int accNum;

    double balance = 1000;

    void Deposit (int amount) {

    balance += amount;
}
void displayBalance() {
    System.out.println("The balance in
the account is : " + balance);
    }
}
class SavAcct extends Account {
    int n = 4;
    double r = 0.07;
void interest (double y) {

    double x = balance;
    balance = balance * Math.pow (1+r/n),
    (y * n));
    System.out.println("An amount of "
+( balance - x) + " has been deposited as
interest");
    }
```



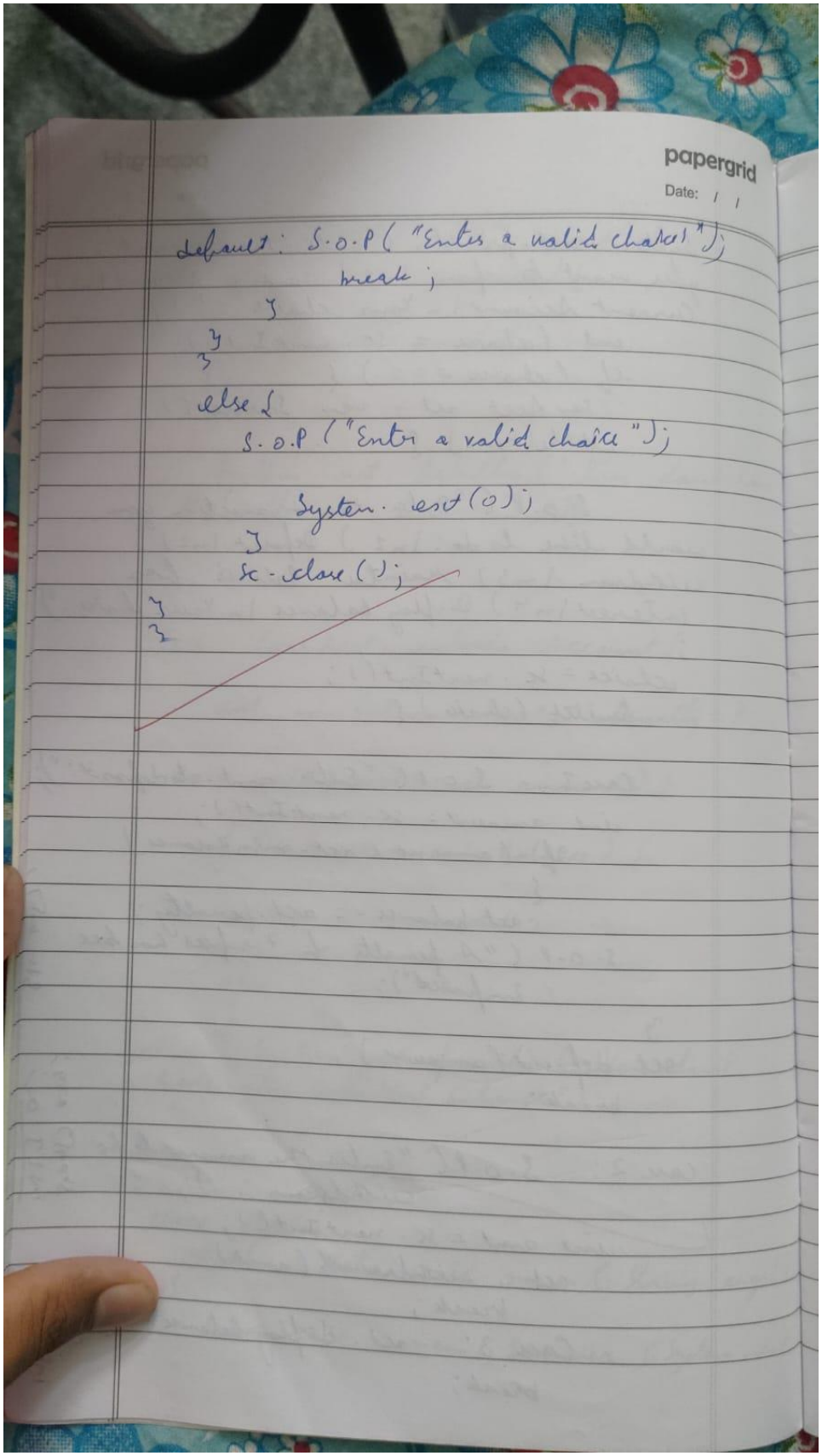
```
void withdraw (int amount) {
  if (balance >= amount) {
    balance -= amount;
  }
  else
  { System.out.println ("You don't have
sufficient balance"); }
  }
}
class CurrAcct extends Account {
  int minBalance = 1000, penalty = 7;
void withdraw (int amount) {
  if (balance < minBalance) {
    balance -= amount;
  }
  else
  {
    System.out.println ("You don't
have the sufficient balance");
  }
}
}
class Main {
  public static void main (String args[])
{
  Scanner sc = new Scanner (System.in);
```



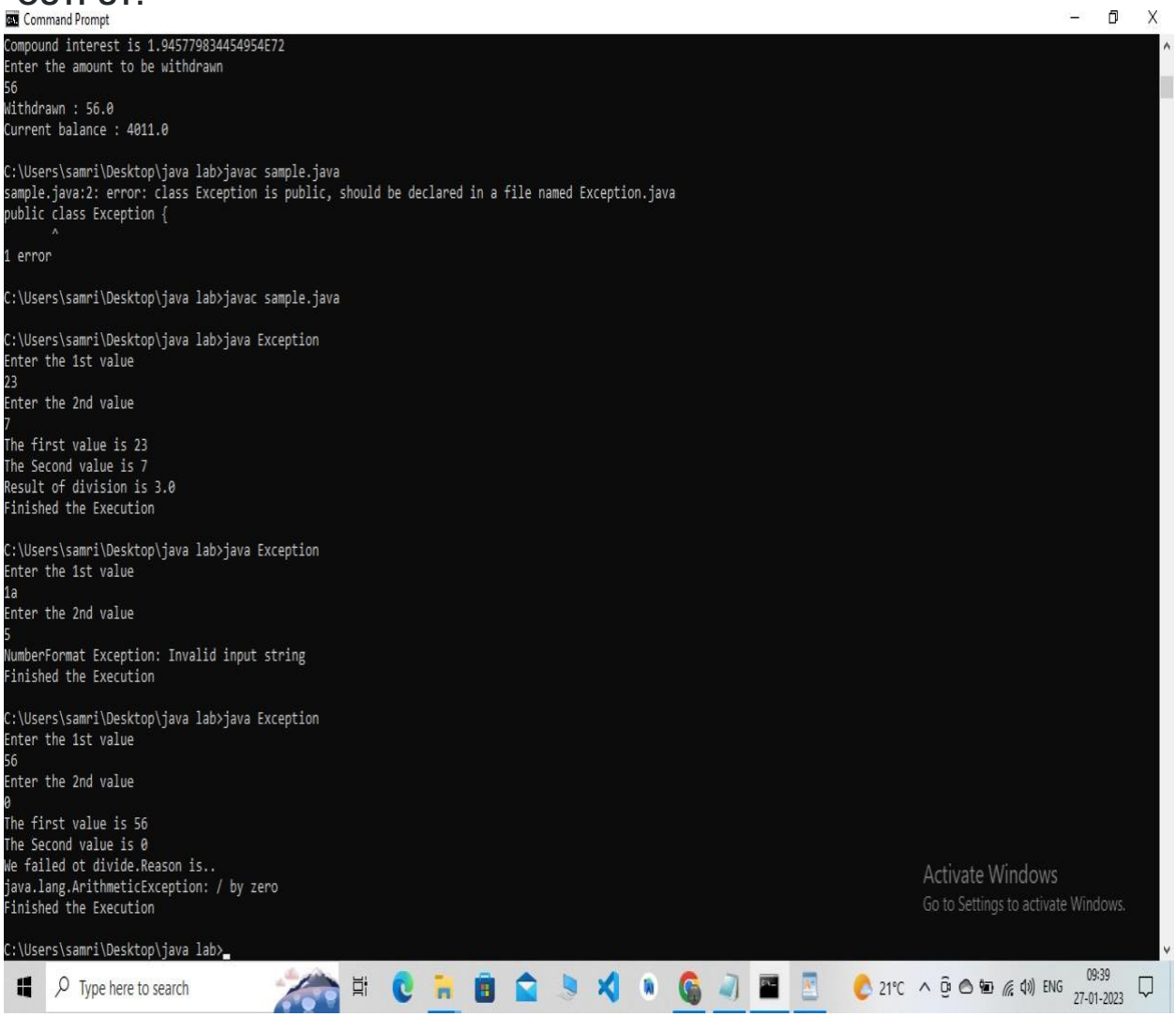
papergrid

Date: / /

```
System.out.println("Enter the account you want to open: \n2) Saving Account \n2) Current Account \n Your choice:");
int choice = sc.nextInt();
if (choice == 2) {
    SavAcct act = new SavAcct();
while(true) {

    S.O.P("Enter the transaction you would like to do: \n2) Deposit \n2) Withdraw \n3) Maintain Balance for Interest \n4) Display Balance \n Your choice:");
;
choice = sc.nextInt();
switch (choice) {

case 1:  S.O.P("Enter amt. to deposit:");
int amount = sc.nextInt();
    if (amount < act.minBalance)
        {
            act.balance -= act.penalty;
S.O.P("A penalty of 7 rupees has been imposed");
}
act.deposit(amount);
break;

case 2:  S.O.P("Enter the amount to be withdrawn:");
int amt = sc.nextInt();
    act.withdrawal(amt);
        break;
    Case 3:  act.displayBalance();
    break;
```

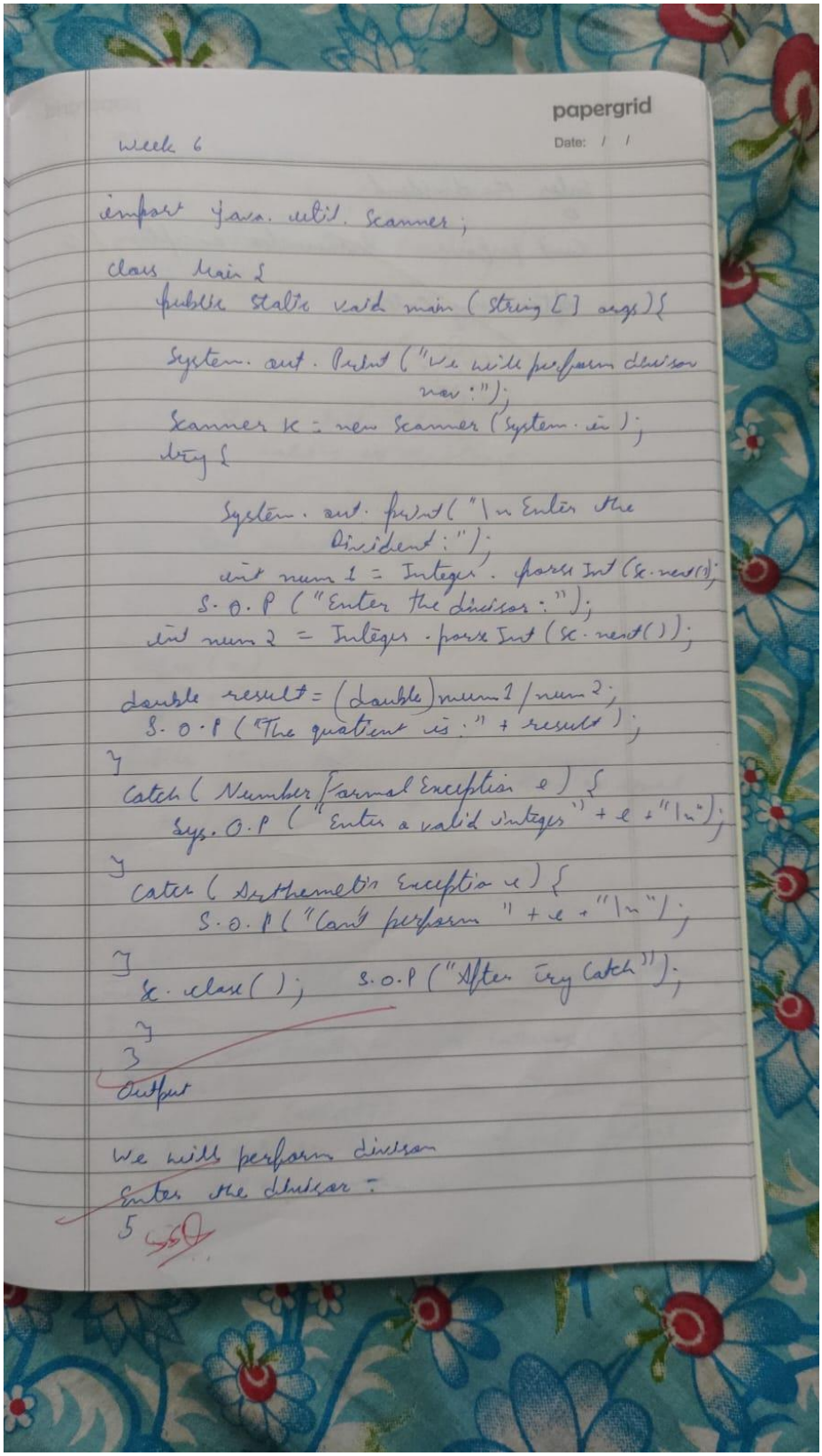

papergrid
Date: / /
default: S.o.P("Enter a valid choice");
break;
}
}
}
else {
S.o.P("Enter a valid choice");
System.exit(0);
}
sc.close();
}
}

OUTPUT:


Command Prompt
Compound interest is 1.945779834454954E72
Enter the amount to be withdrawn
56
Withdrawn : 56.0
Current balance : 4011.0
C:\Users\samri\Desktop\java lab>javac sample.java
sample.java:2: error: class Exception is public, should be declared in a file named Exception.java
public class Exception {
^
1 error
C:\Users\samri\Desktop\java lab>javac sample.java
C:\Users\samri\Desktop\java lab>java Exception
Enter the 1st value
23
Enter the 2nd value
7
The first value is 23
The Second value is 7
Result of division is 3.0
Finished the Execution
C:\Users\samri\Desktop\java lab>java Exception
Enter the 1st value
1a
Enter the 2nd value
5
NumberFormat Exception: Invalid input string
Finished the Execution
C:\Users\samri\Desktop\java lab>java Exception
Enter the 1st value
56
Enter the 2nd value
0
The first value is 56
The Second value is 0
We failed ot divide.Reason is..
java.lang.ArithmeticException: / by zero
Finished the Execution
C:\Users\samri\Desktop\java lab>
Activate Windows
Go to Settings to activate Windows.
Type here to search
21°C
ENG
09:39
27-01-2023

PROGRAM 6

Write a program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a NumberFormatException. If Num2 were Zero, the program would throw an Arithmetic Exception Display the exception in a message dialog box.



papergrid

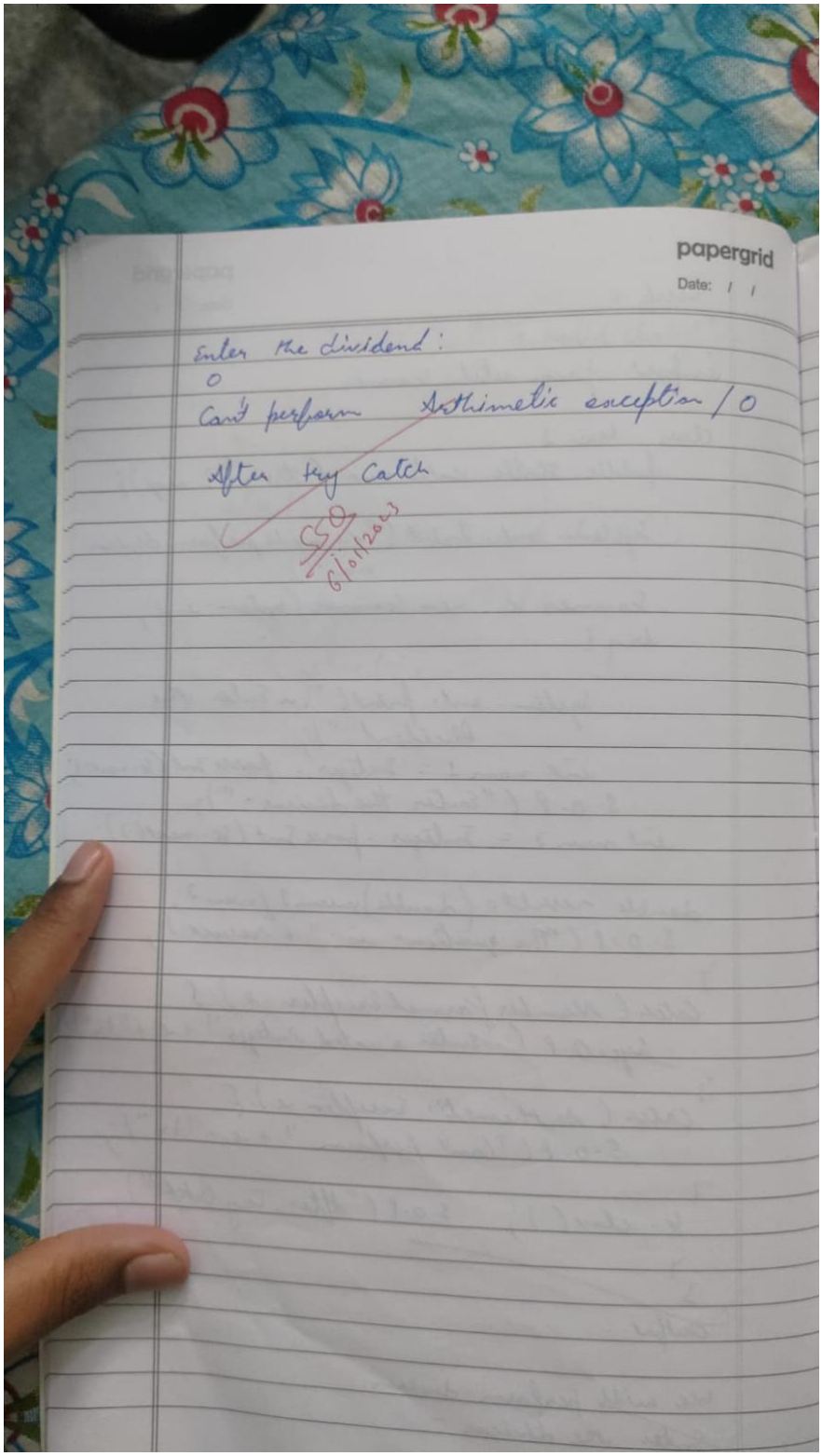
Week 6

Date: / /

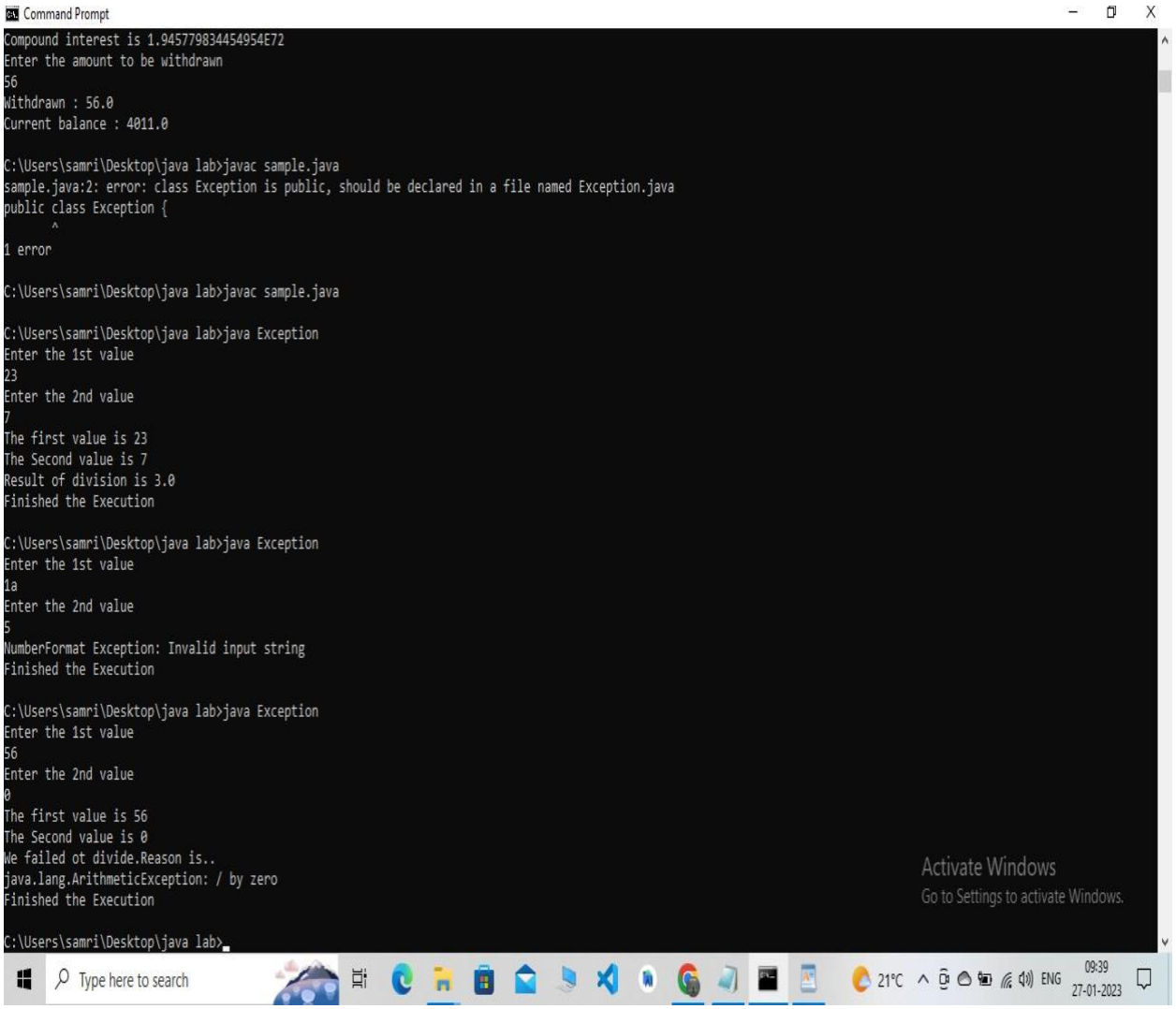
```
import java.util.Scanner;

class Main {
    public static void main (String[] args){

        System.out.println("We will perform division
                            now:");
        Scanner sc = new Scanner(System.in);
        try {

            System.out.println("\n Enter the
                               Dividend:");
            int num1 = Integer.parseInt(sc.next());
            S.O.P("Enter the divisor:");
            int num2 = Integer.parseInt(sc.next());

            double result = (double)num1/num2;
            S.O.P("The quotient is:" + result);
        }
        catch( NumberFormatException e) {
            Sys.O.P("Enter a valid integer" + e + "\n");
        }
        catch (ArithmeticException e) {
            S.O.P("Can't perform " + e + "\n");
        }
        sc.close();    S.O.P("After try catch");
    }
}
```

Output

We will perform division
Enter the dividend:
5

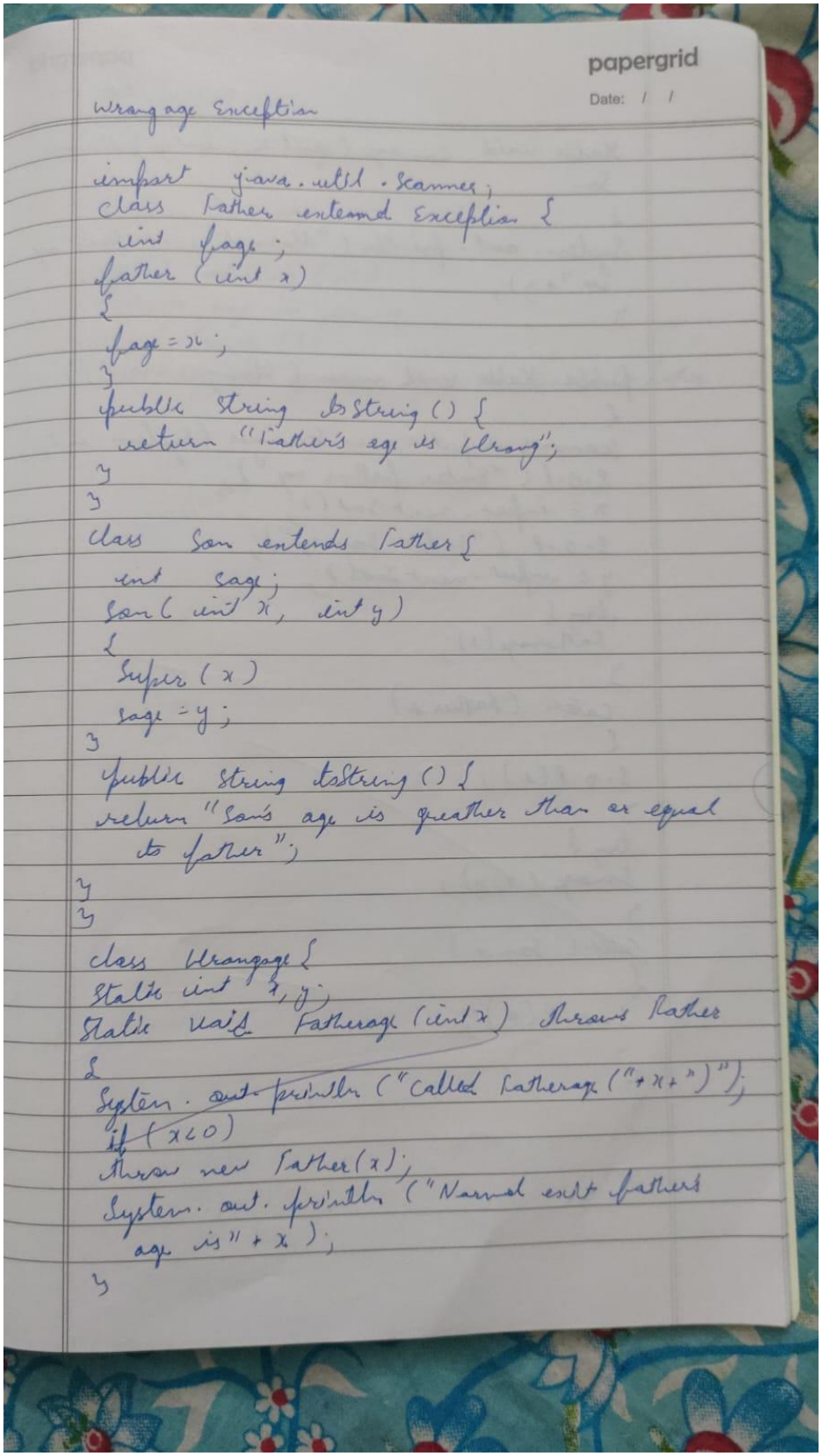

papergrid
Date: / /
Enter the Dividend:
0
Can't perform Arithmetic exception / 0
After try Catch
SSO
6/01/2023

OUTPUT:


Command Prompt
Compound interest is 1.945779834454954E72
Enter the amount to be withdrawn
56
Withdrawn : 56.0
Current balance : 4011.0
C:\Users\samri\Desktop\java lab>javac sample.java
sample.java:2: error: class Exception is public, should be declared in a file named Exception.java
public class Exception {
^
1 error
C:\Users\samri\Desktop\java lab>javac sample.java
C:\Users\samri\Desktop\java lab>java Exception
Enter the 1st value
23
Enter the 2nd value
7
The first value is 23
The Second value is 7
Result of division is 3.0
Finished the Execution
C:\Users\samri\Desktop\java lab>java Exception
Enter the 1st value
1a
Enter the 2nd value
5
NumberFormat Exception: Invalid input string
Finished the Execution
C:\Users\samri\Desktop\java lab>java Exception
Enter the 1st value
56
Enter the 2nd value
0
The first value is 56
The Second value is 0
We failed ot divide.Reason is..
java.lang.ArithmeticException: / by zero
Finished the Execution
C:\Users\samri\Desktop\java lab>
Activate Windows
Go to Settings to activate Windows.
Type here to search
21°C
ENG
09:39
27-01-2023

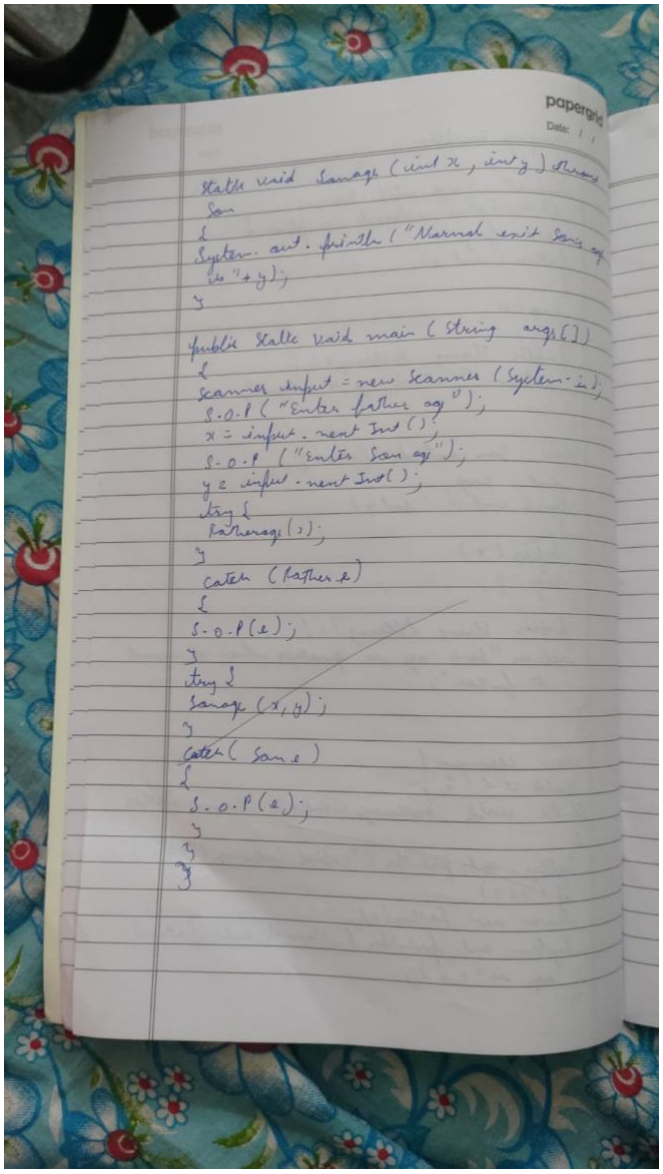
PROGRAM 7

Write a program that demonstrates handling of exceptions in inheritance tree. Create a base class called “Father” and derived class called “Son” which extends the base class. In Father class, implement a constructor which takes the age and throws the exception WrongAge( ) when the input age<0. In Son class, implement a constructor that cases both father and son’s age and throws an exception if son’s age is >=father’s age.

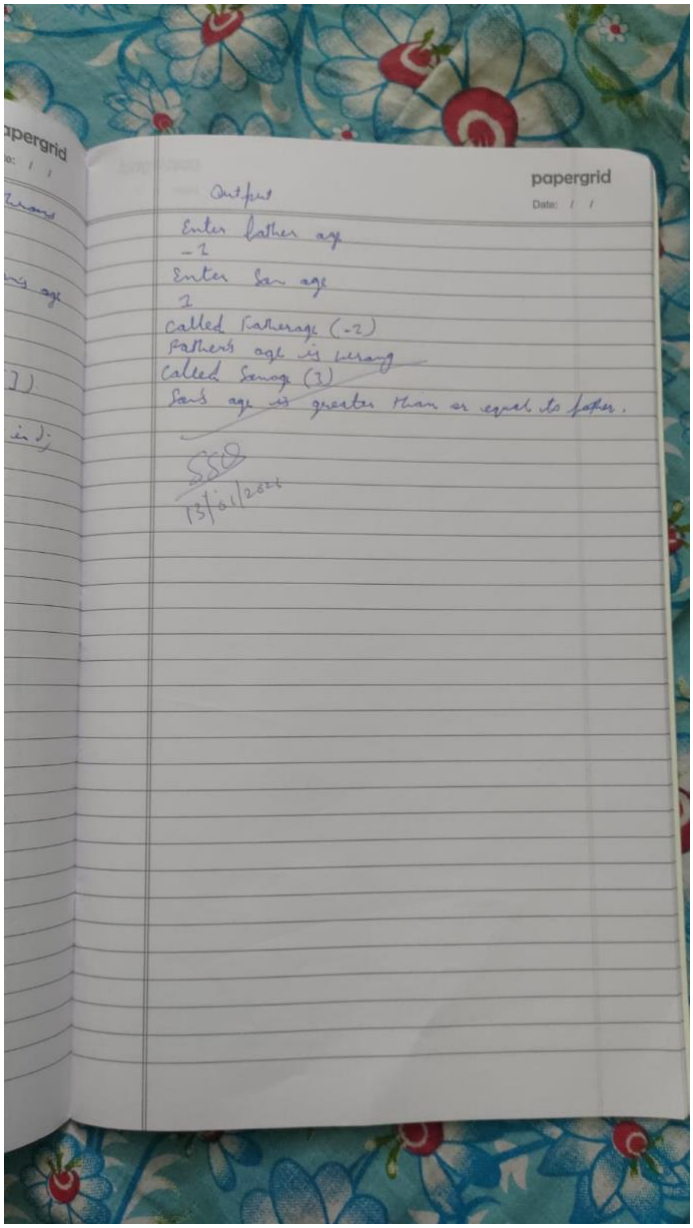


Wrong age Exception

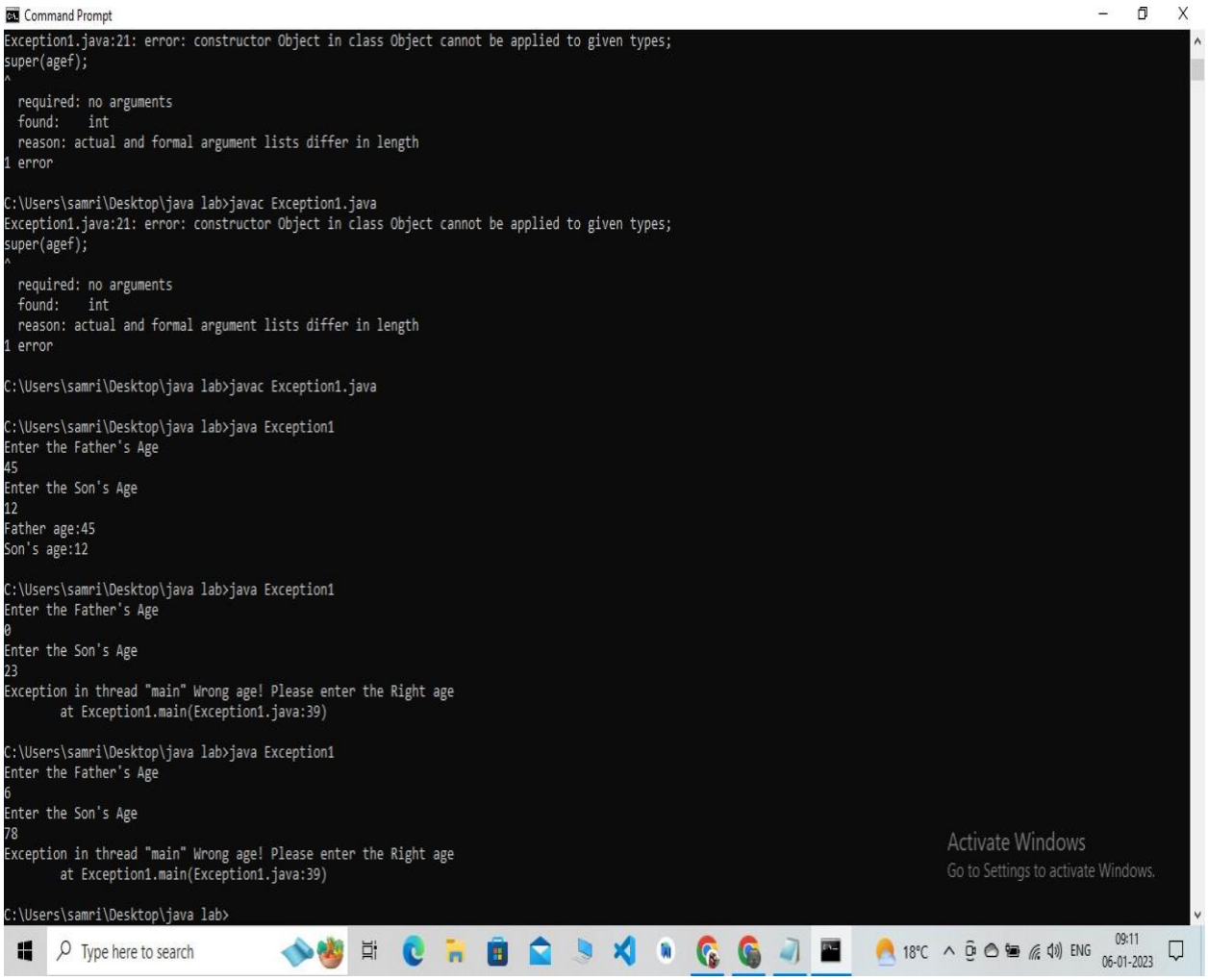
```
import java.util.Scanner;
class Father extends Exception {
  int fage;
father (int x)
{
 fage = x;
}
public String toString () {
  return "Father's age is Wrong";
}
}
class Son extends Father{
  int sage;
Son ( int x, int y)
{
  Super (x)
  sage = y;
}
public String toString () {
return "Son's age is greather than or equal
   to father";
}
}
class Wrongage{
Static int x, y;
Static void Fatherage (int x) throws Father
{
System. out. println ("called Fatherage ("+x+")");
if (x<0)
throw new Father(x);
System. out. println ("Normal exit father's
   age is" + x );
}
```



```
static void Sanage (int x, int y) throws
Son
{
System.out.println("Married exist Sons ag
is "+y);
}

public static void main (String args[])
{
Scanner input = new Scanner (System.in);
S.o.P ("Enter father age");
x = input.nextInt();
S.o.P ("Enter Son age");
y = input.nextInt();
try {
Fatherage(x);
}
catch (Father e)
{
S.o.P(e);
}
try {
Sanage (x, y);
}
catch( Son e )
{
S.o.P(e);
}
}
}
```

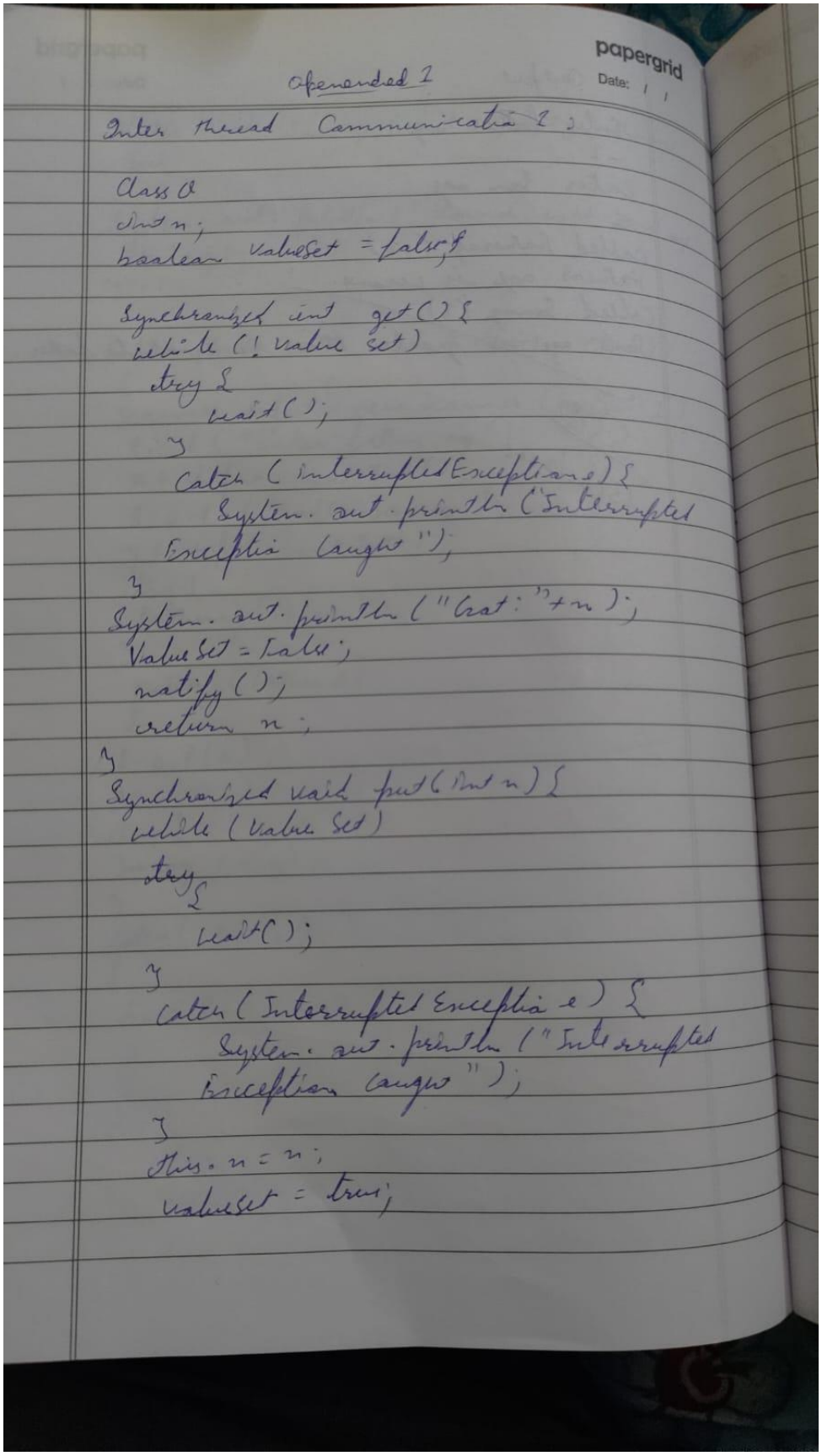

papergrid
Output
Enter father age
-2
Enter Son age
2
Called Fatherage (-2)
Fathers age is wrong
Called Sonage (2)
Sons age is greater than or equal to father.
13/01/2024

OUTPUT:


Command Prompt
Exception1.java:21: error: constructor Object in class Object cannot be applied to given types;
super(agef);
^
required: no arguments
found: int
reason: actual and formal argument lists differ in length
1 error
C:\Users\samri\Desktop\java lab>javac Exception1.java
Exception1.java:21: error: constructor Object in class Object cannot be applied to given types;
super(agef);
^
required: no arguments
found: int
reason: actual and formal argument lists differ in length
1 error
C:\Users\samri\Desktop\java lab>javac Exception1.java
C:\Users\samri\Desktop\java lab>java Exception1
Enter the Father's Age
45
Enter the Son's Age
12
Father age:45
Son's age:12
C:\Users\samri\Desktop\java lab>java Exception1
Enter the Father's Age
0
Enter the Son's Age
23
Exception in thread "main" Wrong age! Please enter the Right age
at Exception1.main(Exception1.java:39)
C:\Users\samri\Desktop\java lab>java Exception1
Enter the Father's Age
6
Enter the Son's Age
78
Exception in thread "main" Wrong age! Please enter the Right age
at Exception1.main(Exception1.java:39)
C:\Users\samri\Desktop\java lab>
Activate Windows
Go to Settings to activate Windows.
Type here to search
18°C
ENG
09:11
06-01-2023

PROGRAM 8

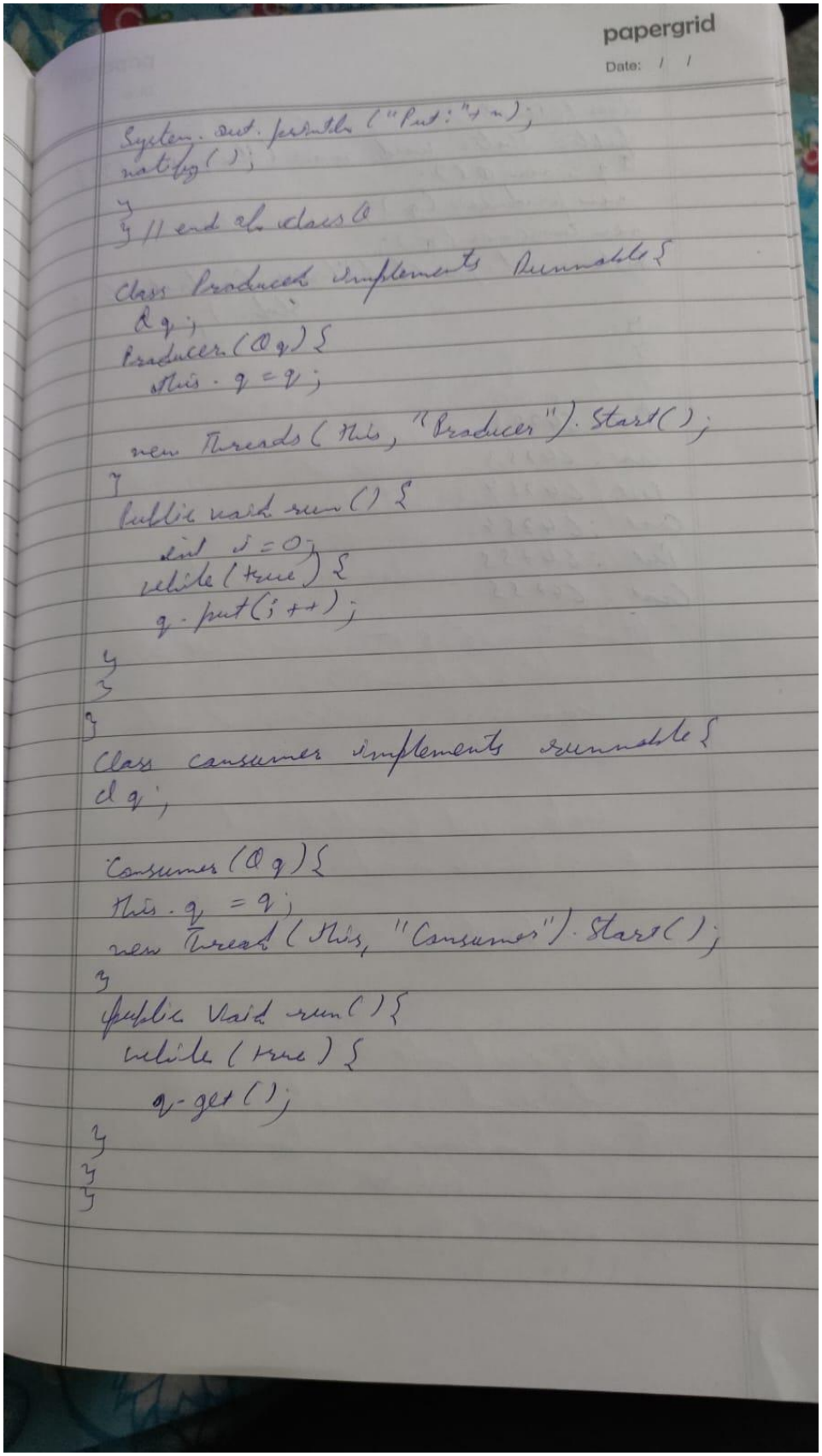
Write a program which creates two threads, one thread displaying “BMS College of Engineering” once every ten seconds and another displaying “CSE” once every two seconds



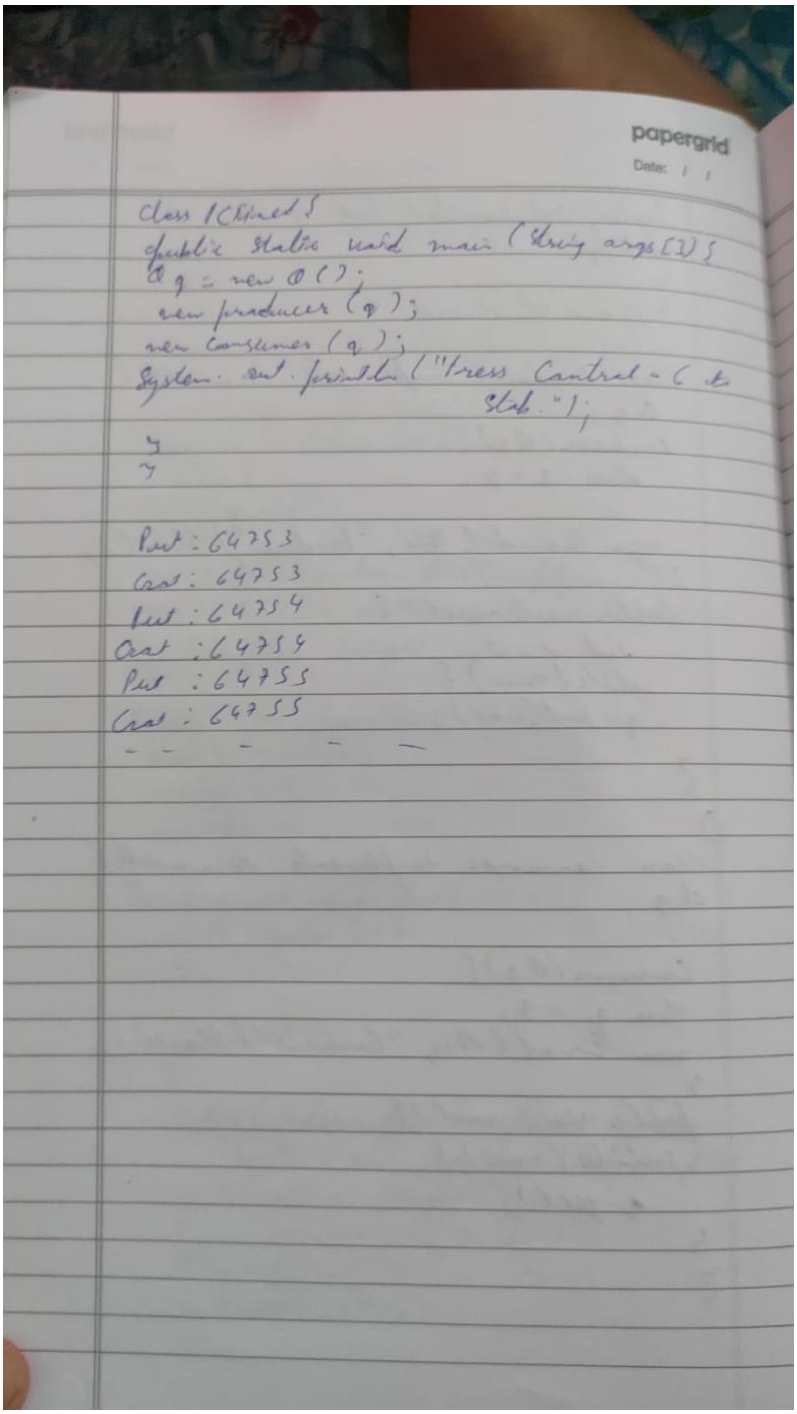
Openended 1

Inter thread Communication :

```
Class Q
int n;
boolean valueSet = false;

Synchronized int get() {
while (! value set)
  try {
     wait();
  }
  catch (InterruptedException e) {
     System.out.println ("Interrupted
  Exception caught");
}
System.out.println ("Got: " + n);
ValueSet = false;
notify();
return n;
}
Synchronized void put(int n) {
while (value Set)
  try {
     wait();
  }
  catch (InterruptedException e) {
     System.out.println ("Interrupted
  Exception caught");
  }
  this.n = n;
  valueSet = true;
```



```
System.out.println("Put:"+n);
notify();
}
} // end of class Q

class Producer implements Runnable {
Q q;
Producer(Q q) {
  this.q = q;
new Thread(this, "Producer").start();
}
public void run() {
  int i = 0;
  while(true) {
  q.put(i++);
}
}
}
class Consumer implements Runnable {
Q q;

Consumer(Q q) {
this.q = q;
new Thread(this, "Consumer").start();
}
public void run() {
  while(true) {
    q.get();
}
}
}
```



papergrid
Date: / /

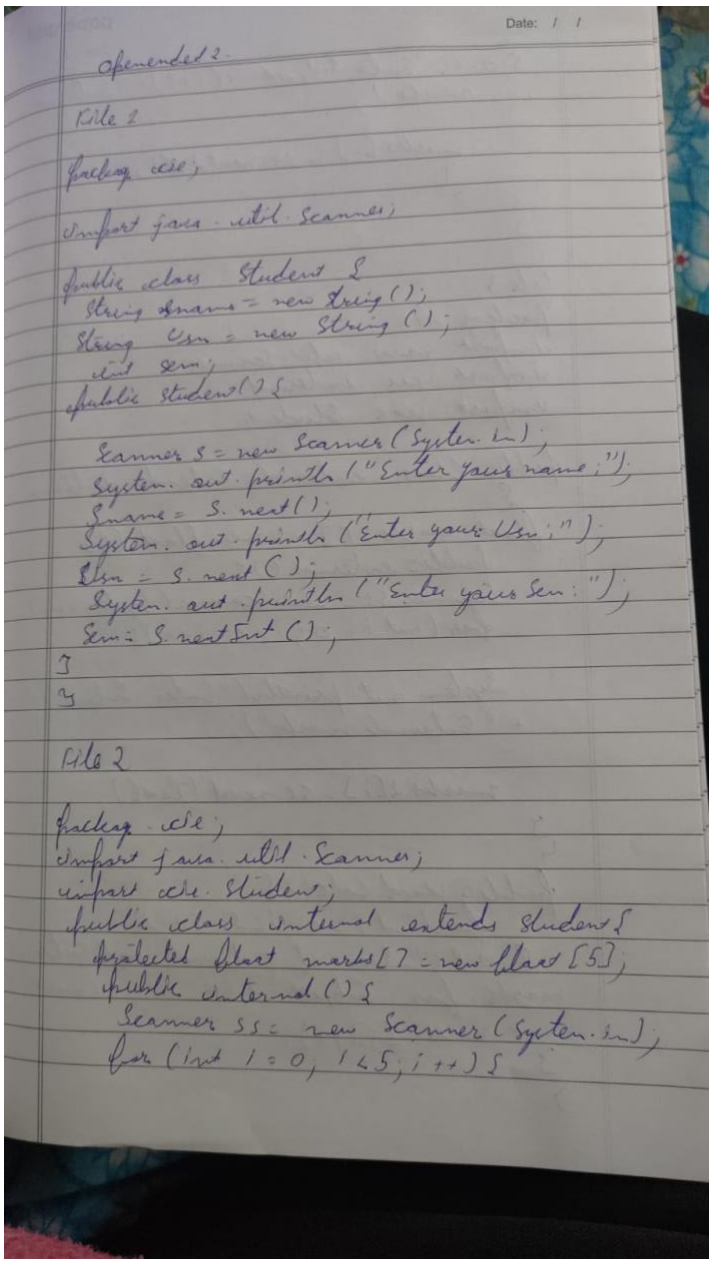
```
class ICStack {
public static void main (String args[]) {
Q q = new Q();
new producer (q);
new consumer (q);
System.out.println("Press Control-C to
                    stop.");
}
}
```

Put : 64753
Got : 64753
Put : 64754
Got : 64754
Put : 64755
Got : 64755
- - - - -

OUTPUT:

```
Put: 24804
Got: 24804
Put: 24805
Got: 24805
Put: 24806
Got: 24806
Put: 24807
Got: 24807
Put: 24808
Got: 24808
Put: 24809
Got: 24809
Put: 24810
Got: 24810
Put: 24811
Got: 24811
Put: 24812
Got: 24812
Put: 24813
Got: 24813
Put: 24814
Got: 24814
Put: 24815
Got: 24815
Put: 24816
Got: 24816
Put: 24817
Got: 24817
Put: 24818
Got: 24818
Put: 24819
```

9. Packages



Date: / /

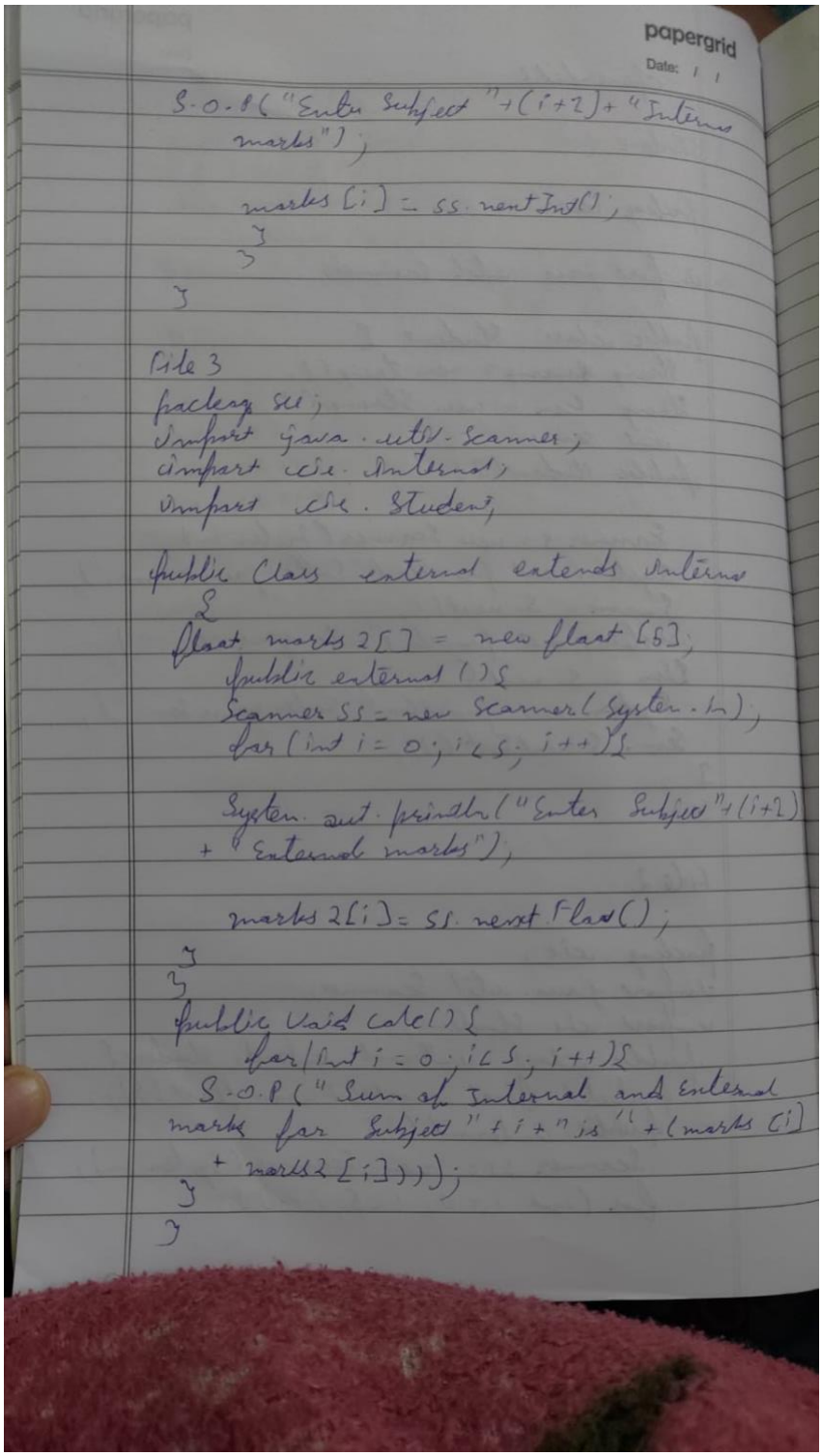
Openended 2

File 1

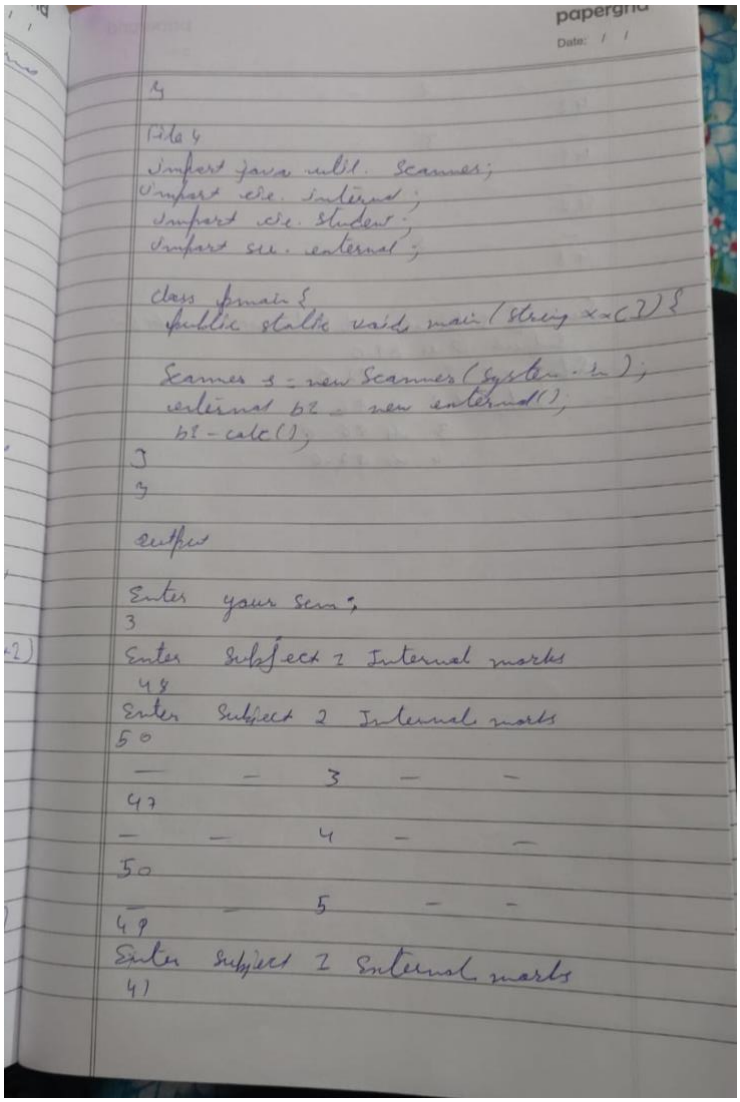
```
package cie;

import java.util.Scanner;

public class Student {
    String sname = new String();
    String usn = new String();
    int sem;
    public Student() {

        Scanner s = new Scanner(System.in);
        System.out.println("Enter your name:");
        sname = s.next();
        System.out.println("Enter your Usn:");
        usn = s.next();
        System.out.println("Enter your Sem:");
        sem = s.nextInt();
    }
}
```

File 2

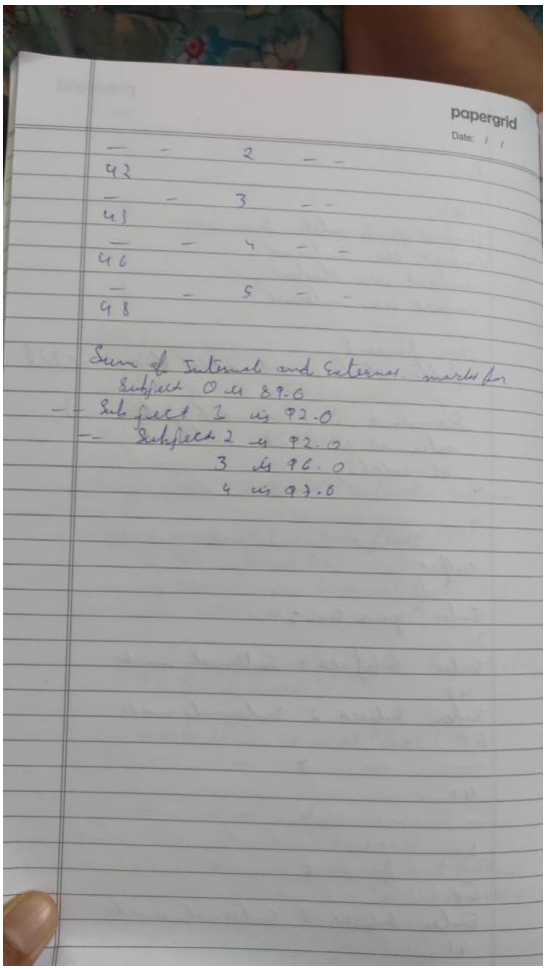
```
package cie;
import java.util.Scanner;
import cie.Student;
public class Internal extends Student {
    protected float marks[] = new float[5];
    public Internal() {
        Scanner ss = new Scanner(System.in);
        for (int i = 0; i < 5; i++) {
```



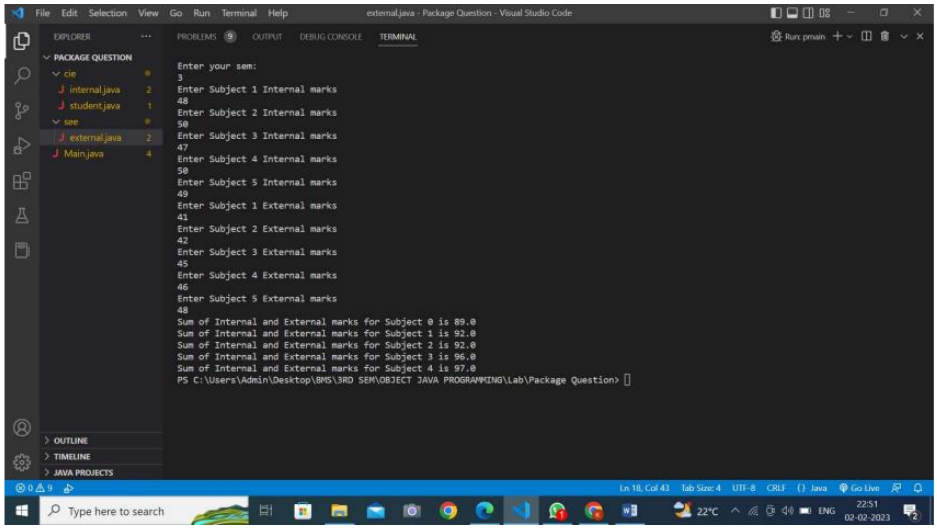
```
S.O.P("Enter Subject "+(i+2)+" Internal
    marks");

    marks[i] = ss.nextInt();
    }
    }

}

File 3
package sei;
import java.util.Scanner;
import cie.Internal;
import cie.Student;

public class external extends Internal
{
float marks2[] = new float[5];
    public external(){
    Scanner ss = new Scanner(System.in);
    for(int i=0; i<5; i++){

    System.out.println("Enter Subject"+(i+2)
  + "External marks");

    marks2[i] = ss.nextFloat();
  }
}
public void calc(){
    for(int i=0; i<5; i++){
  S.O.P("Sum of Internal and External
marks for Subject "+i+" is "+(marks[i]
  + marks2[i]));
}
}
```



```
4

Title 4
import java.util.Scanner;
import cie.internal;
import cie.student;
import see.external;

class Main {
  public static void main(String x=[])
  {
    Scanner s = new Scanner(System.in);
    external b2 = new external();
    b2.calc();
  }
}

output

Enter your sem:
3
Enter Subject 1 Internal marks
48
Enter Subject 2 Internal marks
50
---  -  3  -  -
47
-  -  4  -  -
50
-  -  5  -  -
49
Enter Subject 1 External marks
41
```


papergrid
Date: / /
2
42
3
43
4
46
5
48
Sum of Internals and Externals marks for
Subject 0 is 87.0
Subject 1 is 92.0
Subject 2 is 92.0
3 is 96.0
4 is 97.0

Output:


File Edit Selection View Go Run Terminal Help
external.java - Package Question - Visual Studio Code
EXPLORER
PACKAGE QUESTION
cie
internal.java 2
student.java 1
see
external.java 2
Main.java 4
PROBLEMS 9
OUTPUT
DEBUG CONSOLE
TERMINAL
Run: main
Enter your sem:
3
Enter Subject 1 Internal marks
48
Enter Subject 2 Internal marks
50
Enter Subject 3 Internal marks
47
Enter Subject 4 Internal marks
50
Enter Subject 5 Internal marks
49
Enter Subject 1 External marks
41
Enter Subject 2 External marks
42
Enter Subject 3 External marks
45
Enter Subject 4 External marks
46
Enter Subject 5 External marks
48
Sum of Internal and External marks for Subject 0 is 89.0
Sum of Internal and External marks for Subject 1 is 92.0
Sum of Internal and External marks for Subject 2 is 92.0
Sum of Internal and External marks for Subject 3 is 96.0
Sum of Internal and External marks for Subject 4 is 97.0
PS C:\Users\Admin\Desktop\BMS\3RD SEM\OBJECT JAVA PROGRAMMING\Lab\Package Question>
OUTLINE
TIMELINE
JAVA PROJECTS
Ln 18, Col 43 Tab Size: 4 UTF-8 CRLF Java Go Live
Type here to search
22°C
ENG
22:51
02-02-2023