

Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

AY: 2024-25			
Class:	SE	Semester:	
Course Code:		Course Name:	00PJ

Name of Student:	Aman	Mehtar	
Roll No. :	32		
Assignment No.:	05		
Title of Assignment:			
Date of Submission:			
Date of Correction:			

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	2
Demonstrated Knowledge	3	3.
Legibility	2	2
Total	10	16.

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	3-4	1-2
Demonstrated Knowledge Legibility	. 3	2 .	1
Legibility	2	1	0

Checked by

Name of Faculty

: Ms. Neha Raut

Signature

Date

91)	A user wanted to book the last available ticket of class Movie. Greate two threads of the object of this class, created at two counters and book the ticket for one of the customers and book the ticket for one of the customer while displaying "House full" for the other customer.
Ans:	Program: import java·vtil·*;
	class Movie ? private boolean available Ticket = true;
•	public synchronized void book Ticket (String customer Name) { if (available Ticket) }
,	System.out. println (customerName + "Successfully booked the last ticket"); available Ticket = false;
	else { System.out.println("Housefull for "+ customerName);
	3
	class Ticket Counter extends Thread
Gundaram	private Movie; FOR EDUCATIONAL USE

```
private String customer Name;
               public Ticket Counter (Movie movie, String customer Name) [
                    this movie = movie;
                    this customer Name = customer Name;
                @override
                public void run () {
                     movie · book Ticket (customer Name):
        public class Movie Booking App {
               public static void main (String [7 args) {

Movie movie = new Movie();
                    Ticket Counter counter I = new Ticket Counter (movie,
                    "Customer I"):
                    Ticket Counter counter2 = new Ticket Counter (movie,
                      " Customer 2 11);
                    counter[. start ();
                   counter2. start ();
        Output: - Customer I successfully booked the last ticket
                    Housefull for Customer?
                                  FOR EDUCATIONAL USE
(Sundaram)
```

	Implement a program to perform division of two nos accepted from user. Handle the ID Exception, Number fusion exception and also handle the divide by zero exception using try-catch black.
Ans:-	Program:
- 1110	import java·io·*;
	public class DivisionProgram [
	public static void main (String [7 args) ?
	Buffered Reader reader = new Buffered Reader (
9	new inputStreamReader (System·in));
	int num1 = 0, num2 = 0;
	try &
	System. out. print ("Enter the first number: ");
	try f
	num1 = Integer. parse Int (reader. readline ());
	11 May throw Number format exception
	catch (Numberformat Exception e) {
	System.out.println ("Invalid input for the first number number. Please enter a valid Number");
	1 *
	return;
	Sol to 11 11 11 and made of 1
	System. out. print ("Enter the second number:");
	try!
	num2 = Integer.parseInt (reader.readline ());
	catch (Numberformal Exception e) f
	System out println ("Invalid input for the second
	number · Please entor, a valid Number ");
(Sundaram)	FOR EDUCATIONAL USE

```
return:
                       try.
                           int result = num1/num2;
                          11 May throw Asidh metic Exception (division by 0)
System. out. println ("Result: " + result);
                       catch (Arithmetic Exception e) [
                            System. out. println (" Error!! Division by zero is (
                        catch ( IO Exception e) [
                            System. out. println (" An input output error occurred "
                             + e.getMessage ();
          Output :-
           Enter the first number: 10
          Enter the second number: 0
          Error! Division by zero is not allowed.
                                        FOR EDUCATIONAL USE
(Sundaram)
```