

Reg. No.:

Name :



**Final Assessment Test – Lab – (FAT-LAB) - November - 2023**

<b>Programme</b>	<b>: M.Tech. (Int.) Software Engineering</b>	<b>Semester</b>	<b>: FALL Semester 2023-24</b>
<b>Course Code</b>	<b>: SWE1007</b>	<b>Class Nbr(s)</b>	<b>: CH2023240100439</b>
<b>Course Title</b>	<b>: Programming in JAVA</b>		
<b>Faculty(s)</b>	<b>: Dr. Anusooya G</b>	<b>Slot</b>	<b>: L55+L56</b>
<b>Time</b>	<b>: 90 Minutes</b>	<b>Max. Marks</b>	<b>: 50</b>

1. Assume that you and your friends go to a mall to play games followed by a buffet lunch. It was decided that you would pay the bill and later everyone could split the entire expenses spent in the mall. Write a Java program to get input as total friends joined with their names, total games played (X-1500, Y-1000, Z-500) and buffet lunch (Veg-799, Non-Veg-999). Identify the total expenses spent in the mall. Split the bill according to the total number of friends who joined you in the mall. Use exception handling appropriately. Process the SplitBill class using the Main driver class. GST is applicable for food at 5% and Games at 28%.

Input Format	Output Format
Total Friends – 3 Friend-1 name – Ajay Buffet (Veg/Non-Veg) – Non-Veg Friend-2 name – Jack Buffet (Veg/Non-Veg) – Non-Veg Friend-3 name – Asha Buffet (Veg/Non-Veg) – Veg Games Played – 3 1-Game Name – X 2-Game Name – Y 3-Game Name – Z	Food cost – 2936.85 Games Cost – 3840 Total Bill – 6776.85 Ajay – 2258.95 Jack - 2258.95 Asha - 2258.95

1. Library carnival is celebrated once a year to sell books from the library at a discounted price of 15% for the benefit of the needy. It is mandatory to buy 3 books by a member. The user can buy the book until it is available in stock. Press 'Y' to continue and 'N' to stop the process. If the book is available print the cost after the discount for each book with 2 decimals and also print the total cost payable else print NA for not availability of books/billing cost is not applicable. Write a Java program using

Files or using JDBC. Below is the sample Book file/table for your reference.

Sample Book

Book Name	Price	Stock Available
Java	1080	3
DBMS	1060	3
OS	999	2
Oracle	1500	1
Cloud	1990	1

Input format	Output Format
Name 1	Name 1
Java	Java 918
OS	OS 849.15
Cloud	Cloud 1691.50
Y	3458.65
Name 2	Name 2
OS	OS 859.15
Cloud	Cloud NA
Oracle	Oracle 1275
N	2134.15

S.No	Content	Total Marks	Marks Scored
1	Program – 1	20	
2	Program – 2	20	
3	Quiz	10	
4	Total	50	

**Anusooya G / 50408 /Associate Professor**