

## **Console-based Milktea Café Management System**

**Team Name:** Team CreativiTEA

**Team Members:**

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**Project Description:**

This project consists of a console-based program of a shop which sells various coffees and milk teas, a Milktea Café Management System. The program manages the orders of the customers and calculates the total earnings of the shop. It helps to improve the efficiency of a shop using the calculating and processing speed of a computer. The goal of this project is to create a console-based milktea café management system that can process orders of customers.

**Features/Functionality:**

- Show a menu list of products on sale
- Take order from a customer
- Take payments from customers
- Calculate total order cost
- Provide error messages when necessary
- Record the transactions made by customers

**Scope and Limitation:**

The program is meant to be operated by a customer and can have many orders. The shop will give up to 5% discount upon receiving an order of 50 pieces of the same product and 10% discount on quantities 100 or larger. A customer cannot order a quantity more than 1000 pieces of any product.

**Basic Classes:**

- Shop, Milktea, Coffee

### Initial Class Diagram:

Shop
transactions: String []
displayWelcome() displayMenu()

Milktea
flavor: String [] size: String [] price: int [] quantity: int
displayMilktea()

Coffee
type: String [] price: int [] quantity: int
displayCoffee()

### Sample outputs:

```
C:\WINDOWS\system32\cmd.exe - java CS2AGroup11

Welcome to Paimon's Café

+-----+-----+
| Code | Command |
+-----+-----+
| 1     | Make an order |
| 2     | Exit       |
+-----+-----+

Enter the code of your choice: 1_
```

```
C:\WINDOWS\system32\cmd.exe - java CS2AGroup11

MENU

+-----+-----+
| Code | Products |
+-----+-----+
| 1     | Milktea  |
| 2     | Coffee   |
| 3     | Back to Welcome |
+-----+-----+

Enter the code of your choice: 1
```

C:\WINDOWS\system32\cmd.exe - java CS2AGroup11

Code	Size	Price
1	16oz	29
2	20oz	39

Enter the code of the size: 1

Milktea	
Code	Flavor
1	Dark Choco
2	Oreo
3	Matcha
4	Okinawa
5	Red Velvet
6	Strawberry
7	Honey Dew
8	Taro

Enter the code of the flavor: 2\_

```
C:\WINDOWS\system32\cmd.exe - java CS2AGroup11
```

Coffee		
Code	Type	Price
1	Espresso	70
2	Americano	100
3	Latté	120
4	Cappuccino	130
5	Mocha	140
6	Macchiato	120
7	Cold Brew	150
8	Drip Coffee	80

Enter the code of the coffee: 5\_