# CIS18A Course Project Part 1: Documentation and Program

In Project Part 1, you will create a program for a small business The program should incorporate all required elements as listed and described in Chapters 1 – 9. This program is intended to improve business process and operation flow. Refer to the below information and requirement.

## Program Documentation and Pseudocode: 100 points

1. Provide you company name (software company name).

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1. Create a pseudocode for the program.

See tutorials:

<https://youtu.be/D0qfR606tVo>

<https://youtu.be/PwGA4Lm8zuE>

output menu options

let the user select the options using switch statements

add an option to let the user customize

call methods in that switch selection

pass array into the method to display the flavors/toppings

call other methods to let user select each flavor/topping

create another class that will be a subclass and let it calculate the total amount due

1. Create a short documentation describing the program purpose, function, and objectives. Minimum a page is required.

This document should explain the purpose of your program, targeted audience/type of users, and business functions.

* Who is it for?

Answer: This program is for customers who want to buy ice cream and are looking to order without having to wait in line

* What is its purpose?

Answer: Its purpose is to hopefully to stop the spread of Covid as well as reduce lines. A lot of people will want to limit their contact with people and this program will help with a lot of those problems.

* What is its business function?

Answer: This will help the business grow more during the Covid pandemic as well as be able to maintain a steady revenue.

* What is its technical function?

Answer: This program will hopefully be a simple way for customers to order ice cream, they will be able to create their own and choose their flavors and topping.

1. Select a business type.

Business Types:

Select a type of business. \*\* ATM, bank programs will not be accepted as they are available in books or websites.

* Restaurant (program for customers, server, chefs, staff operation).
* Beauty salon/spa (program for customers or staff operation).
* Coffee shop (program for customers, baristas, or staff operation).
* Clothing retailer (program for customers, clerks, or staff operation).
* Health food retailer (program for customers, clerks, or staff operation).
* Gym with training programs (program for members, trainers or staff operation).
* Office supply retailer (program for customers, clerks, or staff operation).
* Furniture retailer (program for customers, clerks, or staff operation).
* Shoes retailer (program for customers, clerks, or staff operation).
* Mailing and shipping center (program for customers, clerks or staff operation).
* Pet grooming service provider (program for clients, groomers or staff operation).
* Pet supply retailer (program for customers, clerks or staff operation).
* Smartphone prepaid retailer (program for customers, clerks or staff operation).
* Urgent care provider (program for patients, doctors, nurses or staff operation).
* Pharmacy (program for patients, pharmacists, clerks or staff operation).
* Home repair/construction provider (program for clients, worker, or staff operation).
* Medical marijuana dispensary (program for patients, clerks, or staff operation).
* Business and resident cleaning service provider (program for clients or staff).
* Car wash (program for customers or staff).
* Gas station (program for customer, clerks, or staff operation).
* Nursery (program for customer, clerks or staff operation).
* Hardware store (program for customer, clerks or staff operation).
* Bakery (program for customer, bakers or staff operation).
* Ice-cream parlor (program for customer, clerks or staff operation).
* Nutrition center (program for customer, clerks or staff operation).
* Sporting goods retailer (program for customer, clerks or staff operation).

1. Write a Java program for the selected business that fulfill the below requirements, then test the program prior to submission.

## Program Requirements: You will graded on these requirements (200 points)

* **Comments: Document your code, program purpose (15 points)**
* **Appropriate data type (int, double, long, float…). (10 points)**
* **Variables: name and use your variables accordingly, reference the variables, include in blocks. (10 points)**
* **Switch statements (10 points):**
* **Adequate "Options" menu and selection.**
* **Loops (If, If-else, While, Do-while, Range-based, for-loop) (20 points).**
* **Operators: order precedence, functionality in arithmetic, logical and all parameters (20 points)**
* **Class: incorporate at least 2 classes in the program (10 points).**
* **Objects and methods: create objects, constructor and use methods to access these objects. (30 points).**
* **Arrays: include an array, 1 or more dimension is acceptable. (20 points).**
* **Control access to class members: (10 points)**
* **Inheritance: allows one class to incorporate another class into its declaration using inheritance. (10 point)**
* **Import packages: Include packages to streamline development. (10 points)**
* **Implement interfaces: at least more than one interface in the program (20 points).**
* **Efficiency and performance: consider design concepts into the program (5 points).**

**Total: 200 points**

Project Part 1 submission: Documentation (pdf or .docx) and program file (.java)