



# North South University

Department of Electrical and Computer Engineering Project Proposal

Programming Language II Lab

CSE215L

Section: 12

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**Introduction:**

Our idea is built on a restaurant billing system. In this project, we will create a software that will bill and receive orders, as well as balance the profit-loss ratio and give discounts and promotions on various meals.

**Software and Tool's used:**

Java is the software utilized to run the program.

The tools and techniques employed in this project are as follows:

- If...else statements
- Switch statement
- Loops
- Header files
- Functions
- Arrays

**Working of program:**

When the application is executed, it displays a menu of meals with serial numbers; the user enters a serial number such as 1, 2, or 3 based on his or her preferences. After then, the application requested the number of servings from the user. The user may also enter the number of servings that will be transferred to the restaurant's counter and shown at the end, as well as display discounts and offers on the order, and the discounts will be instantly added to the bill.

**Hardware requirement:**

Our application is hardware and software compatible and runs well on all devices.

**Our Object:**

Our goal is to create a user-friendly software that will make the billing system more efficient and easy to use. Our program will also reduce waiter labor and needs in restaurants, and our project will make the restaurant profit loss system more efficient.

**Advantages of the Project:**

We can increase the system's efficiency and thereby overcome the shortcomings of the current system.

- Less human error

- Strength and strain of manual calculation can be reduced
- High security
- Easy to handle
- Easy data updating

**Scope & Limitation:**

The goal of this billing system is to create an information system that will automate manual transactions.

However, the study concentrated on the following:

- It will create a receipt for each transaction entered into the system.
- The program will give a view of each transaction's computations.

**Conclusion:** Users may add any number of products from any of the various food categories to the cart by simply clicking the Add to cart button for each item. After adding an item to the basket, the consumer is given with a comprehensive order to evaluate or continue shopping.