CL-210
Store Management System

Data Structures:

- Stack
- Queue
- Linked List
- Tree

Note: Carefully read the following instructions (*Each instruction contains a weightage*)

1. There must be a block of comments at start of every question's code by students; the block should contain brief description about functionality of code.
2. Comment on every function and about its functionality.
3. Mention comments where necessary such as comments with variables, loop, classes etc. to increase code understandability.
4. Use understandable name of variables. 5. Proper indentation of code is essential.
6. Write a code in C++ language.
7. Make a Microsoft Word file and paste all of your C++ code with all possible screenshots of every task **output in Microsoft Word and submit word file along with.cpp files in ZIP archive.**
8. First think about statement problems and then write/draw your logic on copy.
9. After copy pencil work, code the problem statement on MS Studio C++ compiler.
10. At the end when you done your tasks, attached C++ created files in MS word file and make your submission on Google Classroom. (Make sure your submission is completed).
11. Please submit your file in this format **19F1234_L11**.
12. **Only use above mentioned Data structures.**
13. Do not submit your Project after deadline. Late and email submission is not accepted.
14. Do not copy code from any source otherwise you will be penalized with negative marks.
15. **Only 3 members are allowed in group. Not Less than 3.**

Project Explanation:

In daily life we used Shopping Stores to get our daily life item like egg, bread, utensils, clothes, vegetables e.t.c. In this project we will make a management system to give customers a smart system to select things in store. It mainly consists of 3 modules. Administration module which will deal with the admin duties like billing and managing the stock. Customer Module which will deals with

the buying of user's own choice. Exit module which will allows you to exit from anywhere in project module and project as well. The project will be menu driven at every point user has a choice to go forward or backward or terminate (program or module). It is compulsory to implement the whole project with mentioned 4 data structures. **This project is console based no need of any GUI.**

Project Modules:

- ## Administration Module

Administration Module will manage the whole management system it will include dealing with the budget, stock, order, customers, salesman etc.

There will be CRUD operations Admin can add any product, update product and Delete product as well.

1: Add new product

2: Display all products

3: Modify Existing products

4: Delete a particular product item

5: Customer's list

6: Dequeue customer

- **You can add some more features in these 6 functions to make it more efficient**
- **You should exhibit the functionalities all data structures.**

- ## Customer Module

Customer Module will manage the actions taken by users it will include dealing with the buying history, favorite item etc.

There will be CRUD operations Customer can buy any product, exchange product and Delete product as well (cash return).

1: Buying history (Monthly)

2: Favorite products

3: Complaints

4: Return option

5: Discounts

6: Dequeue any product

- **You can add some more features in these 6 functions to make it more efficient.**
- **You should exhibit the functionalities all data structures.**

• Exit Module

This module will allow user to exit from any module functionality at any time or also to terminate from program

• Bonus

1: proper variable naming conventions

2: Proper comments

3: Proper function names

4: Well explained word document of project

5: Any extra features.