

Course: **Algorithm and Data Structures**
Instructor: **Engr. Asif Suryani**
Class: **BSE-B3 (A&B)**

Assignment 4

This work is about the use of various data structures we have studied and successful completion of this work will enable students to think and implement daily life problems:

In your city a food chain wishes to open their outlet and for this they need software to facilitate users and their daily operations:

The company need software to automate their delivery process so their users experience quality delivery services. They have four delivery boys to deliver the food in the town. Whenever a customer wishes to buy any food item your program should display him/her a menu to buy any food items you should note the time of request and save it and tell user about the estimated delivery time and put the order in a queue.

Requirements:

- 1) Your program should display the menu of food items to the customers and ask them to select food item carefully and display the receipt to customer after the order.
- 2) After that put that order into a queue for delivery and assign that to available delivery boy.
- 3) Your program should have the functionality to display the status of all four delivery boys and pending delivery jobs.
- 4) Your program should keep the record of delivery made by each delivery boy hence to pay them for their efforts.

All the work must be done in object oriented approach and implementation using Linked List must be a plus point and carry **Bonus Mark.**

Key to Success:

Assignment must be submitted to your Class CR in soft form till 18th November 04:30pm sharp.

No queries will be entertained in any case after provided deadline. **(No Email submission)**

Deadline will not be extended in any case.

Copying and cheating will lead towards straight ZERO and more.

Good Luck