

# **CSC 1012 Introduction to Computer Programming Assignment** **(Individual)**

## **Logistics Management System**

**Name :** - Navarathnarajah Gowthaman

**Index No :** - AS20240539

**GitHub repository :-** <https://github.com/Gowthaman-USJ/C-Assignment-Project--AS20240539-Gowthaman-N.git>

### **Introduction**

The project is a simple logistics management system developed using C programming language.

### **Functions in the code**

1. menu function
2. selectchoice function
3. readfromfiles function
4. citymanagment function
5. inputdistance function
6. distancemanagment function
7. printdistable function
8. vehiclemanagment function
9. deliveryorder function
10. calculations function
11. printtdelivery function
12. storereports function
13. printperformancereport function

## Functionality of each function

1. **menufunction** :- This function will print the menu and get the user's choice as an input and pass it to the selectchoice function.
2. **selectchoice** function :- This function will call the appropriate function based to the user's choice
3. **readfromfiles** function :- This function will read the content from the files and store it in three different arrays
4. **citymanagment** function :- This function will add a new city to the list, rename a city or remove a city from the list based on the user's choice.
5. **inputdistance** function :- This function will ask the user to enter the distances between the newly added city and other cities
6. **distancemanagement** function :- This function will change the distance between two cities or display the distance table based on the user's choice
7. **printdistable** function :- This function will print the distance table
8. **vehiclemanagment** function :- This function will print the details of the three vehicles used by the management for deliveries
9. **deliveryoder** function :- This function will ask the user for details to schedule a delivery order
10. **calculations** function :- This function performs the calculations
11. **printdelivery** function :- This function prints the delivery cost estimation

**12.storereports** function :- This function stores the delivery details in the deliveries.txt file

**13.printperformancereport** function :- This function print the performance reports