

## **REPORT OF PROGRAMMING ASSIGNMENT 2**

### **Problem Definition:**

- Problem is to simulate restaurant management system with object oriented programming. In this assignment we try to manage the restaurant in the way “how should a restaurant works”.

### **Solution Approach:**

- In my assignment I try to manage every class (i.e. waiter ,employer, ,table,.. ) with another manager class (i.e. waiterManager ,employerManager ,tableManager,.. ).Those manager classes hold arrays of its type. And at the top of all of the classes I have restaurant class which determines commands and send commands to the relevant classes.

### **Explanation of Classes:**

- Main (Assignment2.java)  
Includes main method, reads from the files and send all commands to the restaurant class.
- Restaurant  
Has an object of each manager classes and when a command came , sends it to the relevant manager class method.
- Employer  
Has 3 attributes which are name ,salary and tablesCreated( which holds number of tables created by this employer).
- EmployerManager  
Has one attribute which is an array of 5 employers and has methods of employers.

- Waiter

Has 4 attributes which are name ,salary ,tableid (list of table id's) and totaltable ( which holds number of tables which is take care of by this waiter).

- WaiterManager

Has one attribute which is an array of 5 waiters and has methods of waiters.

- Table

Has 6 attributes which are id ,capacity ,whoCreates ,status ,waiter and orderinfo.

- TableManager

Has one attribute which is an array of 5 tables and has methods of tables.

- Order

Has 3 attributes item( array of items ordered by table) ,itemCount (array of number of items which is ordered at once ) and orderCount ( count of how many orders a table order).

- OrderManager

Has one attribute which is orderOfTables ( array of table's orders) and methods of those orders.

- Items

Has 3 attributes which are itemdict( linked hash map of name of items and stock status), itemnames(list of items names) and itemcosts( list of items costs)