



Department Of Computer Engineering

Programming

BBM102

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Programming Language : Java

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1.Problem

The restaurant management software contains workers(employers and waiters), tables, orders, items and performs some operations depending on the provided commands. There are two type of workers which are employer(who are create tables) and waiters(who are brought the orders). There some restrictions on management software which are max. table(5), max.waiter(5), max.employer(5),max.order(5),max. one employer can create table(2), max. one waiter brought order(3), max. one order contain 10 item and some error messages.

2.Solution Approach

We can write program with object oriented program with inheritance. We know program should be dynamic so I used to Linked Hash Map for creating object dynamically. Of course I used inheritance with which was suggested us(orders extend tables).

3.Clarification Of Classes

3.1 Class: Assignment2

This class call program.setup() method.

3.2 Class: program

On this class, program reading setup.dat and command.dat, creating objects of tables,orders,items,employers,data classes and perform methods check_out, get_employer_salary etc..

3.3 Class: tables

This class has tableId, capacity, situation, waiterName, employerName, orderName attributes and contains getters-setters and constructor.

3.4 Class: orders

This class extends tables class, it has totalCount, orderNumber attributes and attributes which are super class tableId, waiterName and it contains getters-setters, constructor.

3.5 Class: items

This class has tableId, waiterName, itemName, itemCost, numberOfSold, orderNumber attributes and it contains getters-setters, constructor.

3.6 Class: data

This class has itemName, itemCost, itemCount attributes and it contains getters-setter, constructor.

3.7 Class: workers

This class has name, salary attributes and it contains getters-setter, constructor.

3.8 Class: employers

This class(extends workers) has openedTable attribute and getters-setter, constructor.

3.9 Class: waiters

This class(extends workers) has servicedTable and totalServicedTable attributes and getters-setters.