**SOHAIB ANWAR**

**Advanced Programming**

**Lab-02**

**Dated: 12-07-2017**

### **Introduction:**

This is an online reservation system for a new restaurant opened in Islamabad. It maintains a whole record for orders of next month.

### Approach:

Used different data structures to improve efficiency of code and tested the code for its working.

## Design:

Initially the person who wants to reserve table tells the number of people, his name and time of reservation.  
Then the system checks the following:

* Is time between 11am – 10 pm
* Finds the table that will be best for the number of people described.
* Checks if it’s already reserved or not.
* If not then reserves the table and assign a waiter for it.
* If reserved then prints a sorry message.
* Prints overall schedule for the waiters.

**GitHub Link:**

<https://github.com/sohaibanwar/AP_Lab02/>