**Assignment Queue:- Manual ticket booking System**

**Note: There are some constraints.**

**Q.1** There is file of 100 users which contain the user information like user id, SA, DA, login time.

There is queue of 20 users (top 20 users from file will be placed on queue). Three counters are available for booking take 1 user for each counter from queue. For each counter there are some constraints.

A. Each counter asked login time of reservation for booking. If enter time is in between 8.00- 9.00 AM than user can do reservation otherwise he will be discarded from counter and next user from queue will be discarded and enter that user into empty counter.

B. After time constraint there is also one constraint of source and destination. Both should be match. (Source: Indore / Destination: Bhopal)

C. After these two constraints user check seats are available or not. If yes than seats are allocated to user and user are discarded from counter. If not available than user discarded from counter and added into file for next time booking.

D. There is one more option of cancellation. If anyone wants to cancel a ticket he/she can do by cancellation option.

E. One user can book only one seat at a time.

F. There are initially total 50 seats available for booking.

**Q.2 Stack Assignment**

Find the all the possible combination of palindrome in a given string using stack.