Practical -12

Objective: Implement the scenario based on circular Queue using array.

11. In a computer-control traffic system, traffic light is one of the best examples of the circular queue. Each light of traffic light gets ON one by one after every interval of time. Like red light gets ON for one minute then yellow light for one minute and then green light. After green light, the red light gets ON.
    If there is a maximum capacity of the circular queue is 3 (Implement the below circular queue operation using C language:
- insert (ENQUEUE)
- delete (DEQUEUE),
- display (TRACING)

Input: Insert 10
        Insert 30
        Insert 20
        Delete
        Insert 40

Output:

Queue is empty !!

Inserted -> 10
Inserted -> 30
Inserted -> 20
Queue is full!!

Front -> 0
Items -> 10 30 20
Rear -> 2

Deleted element -> 10

Front -> 1
Items -> 30 20
Rear -> 2

Inserted -> 40
Front -> 1
Items -> 30 20 40
Rear -> 0

Queue is full!!