

## EXPERIMENT 4

### *Queues Using C*

#### *Experiments:*

##### Experiment 1:

Implement a simple queue in C (`char queue[MAX]`) in order to insert and delete items. Your program should check the input whenever insert is needed, if the input is even number then E should be inserted into the queue, otherwise O should be inserted. Print the sequence of all deleted elements on the screen using an array. Maximum size of the queue is 5.

Note: Each time you perform delete operation save the item in one array and then print it.

```
Function ADDQ(item, Q, n, rear)
{
    if    rear = n        then
        print 'Queue is full '
    else
        rear ← rear + 1
        Q[rear] ← item
}
```

```
Function DELETEQ(item, Q, front, rear)
{
    if front = rear then
        print 'Queue is empty'
    else
        front ← front + 1
        item ← Q[front]
}
```