Data Structures and Algorithms Lab

04. Queue It!

Lab Code: 17ECSP201 **Lab No:** 04 **Semester:** III

Date: Oct, 2017 **Batch:** MSM

Question: Implementing a Circular Queue

Objective: 'Circular Queue operations' implementation using static and dynamic memory allocation

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Queue Properties

- A Queue is a First In First Out data structure (Can also be referred to Last In Last Out)
- Basic operations on Queue are:
  - ENQUEUE
  - DEQUEUE
- Insert operations happen at the rear end and delete operations happen at front end of the queue
- A queue elements are always printed from front to rear

Implement a circular queue concept using

- **array (statically allocated memory)** and
- **list (dynamically allocated memory)** re-presentation.