

**Modern Education Society's
Wadia College of Engineering, Pune**

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| NAME OF STUDENT: | CLASS: |
| SEMESTER/YEAR: | ROLL NO: |
| DATE OF PERFORMANCE: | DATE OF SUBMISSION: |
| EXAMINED BY: | EXPERIMENT NO: DSL E-32 |
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TITLE : To implement circular queue.

PROBLEM STATEMENT: Pizza parlor accepting maximum M orders. Orders are served in first come first served basis. Order once placed cannot be cancelled. Write C++ program to simulate the system using circular queue using array.

OBJECTIVES :

1. To understand structure of circular queues.
2. To understand orders processing system using circular queue.

OUTCOME :

1. To operate on the various structured data.
2. To analyze the problem to apply suitable algorithm and data structure.
3. To discriminate the usage of various structure in approaching problem solution.

PRE-REQUISITES :

1. Knowledge of C++ Programming
2. Knowledge of queue and double ended queue.

APPARATUS :

1. OS: Ubuntu 18.04.2 LTS
2. Processor: Intel® Core™ i7-4790S CPU
3. Graphics: GeForce GT 610/PCIe/SSE2
4. Storage: 400 GB
5. Text Editor: gedit
6. Compiler: python3
7. Terminal

QUESTIONS:

1. Describe circular queue operations.
2. How is order processing convenient using circular queue ended queue?
3. Discuss time complexity of circular queue.