**Tutorial 3**

**1.**

A queue is a linear data structure that follows the First In First Out (FIFO) order, which means that the element that is inserted first will be the first one to be removed

**2.**

**3.**

FIFO (First In First Out) Order

Enqueue

Dequeue

Open at Rear

Closed at Front

No Random Access

Size Limit

Empty Queue

Full Queue (Bounded Queue)

Circular Queue

**4.**

The acronym FIFO stands for "First In First Out," and it is a basic principle that is applied in many situations, especially in data structures and scheduling algorithms. In FIFO, the first element to be added is the first one to be removed, describing the order in which elements are processed or served. This idea is comparable to a line of customers waiting to be served, where the person who joins the line first is the first to receive service.

**5.**

**6.**

Supermarket Checkout

ATM

Bus Stop

Airport Security Check

Traffic at Toll Booths

Ticket Counter