8 days:

**Day 2**

**Data structure and algorithm using JavaScript and Database using MySQL.**

this is s keyword which refer to current object. in JS to access instance variable

we use this.variableName.

constructor is a type of special function which help to create the create the memory.

By default run time JSVM(JavaScript Virtual Machine) provide a default constructor.

In JS while writing constructor we need to create function with name as constructor.

**Queue :** A queue is a linear data structure that follow the concept as FIFO (First In First Out) concept. This means the first element which we added in queue container must be removed first.

Operation on Queue

1. Enqueue (insertion) -🡪 Add an element to the queue
2. Dequeue (deletion)🡪 remove the element from the queue
3. Peek (front view) 🡪 check first element present in queue.
4. isEmpty 🡪 check queue is empty or not.
5. Size 🡪 check the size of the queue (number of elements present in queue).
6. Print papers
7. Task scheduling
8. Message Queue (MQ)
9. Call Centre handling customer query
10. First come first serve

LinkedList : LinkedList is another linear data structure. In Linked List element or data use **node** concept to store the data. Each node connected with each other using pointer or reference concept.

Each Node contains

1. Data 🡪 it can be number, string, Boolean type or object type
2. Next Pointer 🡪 it is use to point or link to next node.
3. Previous Pointer 🡪it is use to point to link to previous node.

Linked list provide dynamic memory allocation and efficient way to handle insertion and delete operation.

Types of Linked List

1. Single linked list
2. Double linked list
3. Single circular linked list
4. Double circular linked list

Data nextRef data nextRef Data nextRef

100 connect 200 connected 300 connect

2nd node 3rd node as of now null

Pref data nextref pref data nextref pref data nextref

null null

Linked List doesn’t provide index concept.