Topics to be covered for Lecture 17

* Parentheses balancing(stack Application)
* Implementation
* Tracing with examples

Topics to be covered for Lecture 18

(Program implementation+ tracing with examples)

* Definition of Queue data structure
* Enqueue dequeue display operations for Queue
* Applications of Queue
* Queue variations

1. Simple queue
2. Circular queue
3. Priority queue

* Various ways to implement Queue

1. Array based implementation with static memory allocation
2. Array based implementation with dynamic memory allocation

* Linked list based implementation

Topics to be covered for Lecture 19, 20

* Array based implementation of Simple Queue

1. Insert
2. Delete
3. Display

**\*\*\*\*\* The program included is for simple queue. Program uses allocated memory only once for storing the elements once all elements are deleted the space is not reused in the program. It is taken care in the circular queue program (will send that later).**

* Linked list based implementation of Simple Queue

1. Insert
2. Delete
3. Display