Global Edge Software Ltd

Tech Training Department

**Note :**

1. **This Assignment needs the appliaction of concepts of pointers, dynamic memeory allocation, operators control flow constructs, structures and covers stack, queues, linked lists**
2. **Write functions wherever necessary.**
3. **All programs should follow ANSI C standards and Linux coding style**

**find the link : /usr/src/linux-4.4.x.y/Documentation/Coding Style**

1. **Use -Wall option while compiling to arrest any warnings.**

1.Implement STACK to perform the below operations using arrays.

a.push

b.pop

c.Display

2. Implement QUEUE to perform the below operations using arrays.

a. Enqueue

b. Dequeue

c. Display

3. Implement circular queue using arrays.

4. Implement SLL

5. Implement DLL

6. Implement CSLL

7. Implement DCLL

**Note:**

Operation to be performed on SLL and DLL:

1.Insertion

1. Insert at the beginning

2. Insert at the end

3. Insert at a given position

4. Insert before a given position

5. Insert after a given position

6. Insert before a given number

7. Insert after a given number

8. Insert at the middle

9. Insert at penultinate node.

2. Deletion

The above operations has to implemented on deletion

3.

* 1. WAP to create a linked list of n nodes & copy the contents of the list to a file in.dat
  2. Write a complimentary program to the 3.1 which will read the contents from the in.dat and re-create linked list and print the content of the linked list on to stdout.