**Master data structures and algorithms with C++**

**Day-2 Assignment**

1. **Find the time complexity involved with following operations on the singly linked list**

* **Insert and delete a node at the start of the list**

Soln:

Time complexity for insertion: O(1)

Time complexity for deletion: O(1)

* **Insert and delete a node at the end of the list**

Soln:

Time complexity for insertion: O(1)

Time complexity for deletion: O(n)

* **Insert and delete a node after a given node**

Soln:

Time complexity for insertion: O(1)

Time complexity for deletion: O(n)

* **Search an element in the list**

Soln:

Time complexity for searching: O(n)