1)

-Singly Linked List :- A singly linked list is a data structure in programming which consists of connection of nodes where each node contains 2 part, first the data field and second on contains the address(points) to the next node in the node.The last code points to null,means the end of the list.

Double Linked List :- A doubly linked list is a data structure that consists of a set of nodes, each of which contains a value and two pointers, one pointing to the previous node in the list and one pointing to thenext node in the list. This allows for efficient traversal of the list inboth direction.

4) Analysis of the time complexity in each case :- (Worst case)

> Add- O(n). where n is the number of task and we have to traverse to the end of the list.

>Search- O(n). because in worst case the element is present in the end of the list and we have

to traverse to end of the list.

> Traverse- O(n)

> Delete-O (n). because we may need to traverse the entire list to find the task to delete.