

**SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CSE**

DATA STRUCTURES LABORATORY (CS8381)

Ex. No. 4 Linked List Implementation of Stack ADT

i) Create a stack ADT using linked list and perform the following operations.

- (a) Push
- (b) Pop
- (c) Returning top of the stack
- (d) Check whether stack is empty
- (e) Disposing stack
- (f) Display stack

Use the following structure to create the linked list stack ADT:

```
struct node
{
    elementtype element;
    ptrtonode next;
};
```

ii) Use the above implementation of stack ADT to check whether a given text is palindrome or not.

Note: Use the stack ADT to store a set of characters. No global declaration should be made.