44.

EASTER UNIVERSITY, SRI LANKA

SECOND EXAMINATION IN SCIENCE (2000/2001)
FIRST SEMESTER

CS 251- DATA STRUCTRE & DESIGN OF ALGORITHM

Time allowed: ᵀᵂᵒ hours

Answer All Questions

Q1

a. Implement the primitive operations of stack(PUSH, POP, STACKEMPTY) using linked list and demonstrate your program.

b. Write a program to read a string of characters and push each character onto a stack as it is read. When the end of string is encountered (using more than one stack) determine whether the string is a palindrome or not.

(Note: A string is said to be a palindrome if it does not change when the order of characters in the string is reserved.
For example: MADAM)