

SSN College of Engineering, Kalavakkam
Department of Computer Science and Engineering
III Semester - CSE 'A ', 'B' & 'C'
UCS 1312 Data Structures Lab

Academic Year: 2019-2020

Batch: 2018-2022

Exercise 7: Expression Tree

- Input : infix expression, Output: expression tree
- Use CharStack ADT to convert the infix expression into postfix expression
- Create TreeStack ADT to push and pop tree nodes (element, left ptr, right ptr)
- Use TreeStack ADT to convert the postfix expression into expression tree
- Display the tree using preorder, inorder and postorder traversals.
- Test for the following expressions
 - a. $(2+5) * (3-6) / (7*8)$
 - b. $7 - (((3+2) * (6+1)) / (5+6))$
 - c. $((3+2) * (2+5))$