SSN College of Engineering, Kalavakkam Department of Computer Science and Engineering III Semester - CSE 'A ','B' 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

b.
$$7 - (((3+2) * (6+1)) / (5+6))$$

c.
$$((3+2)*(2+5))$$