SSN COLLEGE OF ENGINEERING, KALAVAKKAM DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Compiler Lab - UCS 1602

Programming Assignment-4 - Recursive Descent Parser using C

Write a program in C to construct Recursive Descent Parser for the following grammar which is for arithmetic expression involving + and *. Check the Grammar for left recursion and convert into suitable for this parser. Write recursive functions for every non-terminal. Call the function for start symbol of the Grammar in main().

G: E→E+T|T T→T*F | F F→i

Extend this parser to include division, subtraction and parenthesis operators

G: E→E+T|E-T|T T→T*F | T/F|F F→(E)|i