SSN COLLEGE OF ENGINEERING,

KALAVAKKAM

DEPARTMENT OF COMPUTER SCIENCE

& ENGINEERING

UCS 2702- Compiler Design Lab

Exercise 4 – Implementation of Desk Calculator using Yacc Tool

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Write Lex program to recognize relevant tokens required for the Yacc parser to implement desk calculator. Write the Grammar for the expression involving the operators namely, **+ , - ,* , / , ^ , (,). Precedence and associativity has to be preserved**.

Verify your calculator with the following
inputs 1. 3+9
2. 3+9*6
3. (3+4)*7
4. (3-4)+(7*6)
5. 5/7+2
6. 4^2^1
7. (2^3)^2

Tips to use tools

- Write Lex specification, compile and execute to check for the tokens, namely, operators and the identifiers.
- Write yacc specification in ex.y and type the command yacc ex.y.The output will be y.tab.c
- Compile using the command cc y.tab.c. The output will be a.out
- Use exe to give input and get the output.