

Record Contents Phase1

Last date for submission: 18/10/2022 12:00 NOON

1. Write about gcc options especially preprocessing, compilation, debug
(<https://gcc.gnu.org/onlinedocs/gcc/Invoking-GCC.html>)
2. Write briefly (one page) about Lex specification
3. Lex examples
 - i) Write a Lex specification for counting number of identifiers in a c file
 - ii) Write a Lex specification for identifying all single line comments
4. Write briefly(one page) about Yacc specification
5. Yacc examples
 - i) Write Lex & Yacc specification for arithmetic calculator (textbook)
 - ii) Write Lex & Yacc specification for Priya's calculator
 ExtendedCalc
 - iii) Write Lex & Yacc specification for Date calculator
6. Write BNF grammar of Level1 of TinyC and 3 or 4 examples of TinyC Level1 programs
7. Write Lex specification ,Yacc specification, and other required classes for parsing and constructing AST of Level1 TinyC program
8. Write MIPS instructions set
(https://www.dsi.unive.it/~gasparetto/materials/MIPS_Instruction_Set.pdf
and
<http://www.cs.columbia.edu/~martha/courses/3827/au13/mips-isa.pdf>)
9. Write five examples of assembly language programs using MIPS instructions