

PROGRAMMING ASSIGNMENT QUESTIONS

Question I

- Write a C program to Simulate DFA (Input: DFA and a word; Output: accepted or not-accepted)
- Write a C program to construct DFA which is equivalent to given NFA

Question II

- Write a C program to recognize all legal identifier in a C-program file (input: C file, output sequence of id tokens with lexemes)
- Write a C program to recognize all legal integers in a C-program file (input: C file, output sequence of id tokens with lexemes)

Question III

- Write a C program to recognize all legal floats in a C-program file (input: C file, output sequence of id tokens with lexemes)
- Write a C program to recognize all legal keywords in a C-program file (input: C file, output sequence of id tokens with lexemes)

Question IV

- Write a C program to Simulate Push Down Automata(Input: PDA and a word; Output: accepted or not-accepted)
- Write a C program that reads a parse tree for assignment statement and outputs three address code

Question V

- Write a C program that reads a parse tree for assignment statement and outputs postfix expression
- Write a C program that reads an assembly code and outputs machine code (Assume some set of specific assembly instructions)