Assignment 1

CS 348 Introduction to Programming Languages Laboratory

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2 pass assembler

Environment used to run the program:

gcc version 9.3.0 (Ubuntu 9.3.0-17ubuntu1~20.04)

Command to compile:

g++ 180101057 Assign01.cpp

Command to run the code: ./a.out program.txt

File description

- 1. 180101057_Assign01.cpp: Contains code for file handling, loads optable and calls pass_one and pass_two
- 2. assembler.h: Contains function prototypes, header files and global variable
- 3. assembler.cpp: Contains funtion definition of some functions declared in assembler.h
- 4. pass_one.cpp: Contains code for pass 1 of the assembler. It reads input program and creates intermediate file
- 5. pass_two.cpp: Contains code for pass 1 of the assembler. It reads input program and creates object code and listing file
- 6. opcodeTable.txt: Contains object code for corresponding operations
- 7. program.txt: Contains input assembly code
- 8. codeListing.txt: Contains assembly listing
- 9. symbol Table.txt: Contains symbols in assembly code and their corresponding addresses
- 10. intermediate.txt:Intermediate file created after pass 1.
- 11. objectCode.txt:Contains the resultant object code