Name:

Project: CS530 Assignment 1

File name: README.txt

File include:

* dissem.cpp
* makefile
* README.txt

To compile:

* $ cd a1 : to go the file that contain the program
* $ make : to compile te program
* ./dissem ./filename.obj ./filename.sym :to run the program

Required input:

The input filename need to be the filename that are .obj and .sym

+ .obj is an object file of SIC/XE machine

+ .sym is a symtable and littab file for SIC/XE machine

How the program works:

Firstly, getting and open symbol (.sym) and object(.obj) file. The object file will read line by line. “H” is the header of record, ‘”T” is the text record, and “E” is the end record. After reading the end of file, two files will close.   
 + For the header record, the address is where we start and convert to an integer, which will help to calculate the address. Then print the header name.

+ For text record, getting the start address of the text. If the address didn’t match with the current address, it will be label as RESW until they match.

+ For the opcode, the program will remove two right most bits.

+ For the end record, if the program address is greater

Lesson learned:

* Improving in C++ program language
* Maintaining how to organize and practice doing on challenging project
* Understanding format 2,3,4, and address modes.
* Recognizing and processing assembler directives.