8085 ASSEMBLER

Systems Programming Lab: Group 1

WHO ARE WE?

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WHAT IS IT?

This is a X-window based GUI assembler and simulator for 8085 Assembly Language.

Object code is generated using a two pass assembly process.

Assembled code can be executed for quick testing, with full 65536 bytes of available memory.

Provision for step-wise execution for debugging is present, with register contents updated in real time and filtered display of modified memory contents.

WHAT ARE THE FEATURES?

Errors are instantly reported to quickly locate and fix bugs.

The software includes a fully functional text editor with syntax highlighting, autoindentation, copy/paste, unlimited undo/redo support to ease coding.

HOW TO COMPILE

• Required to compile:

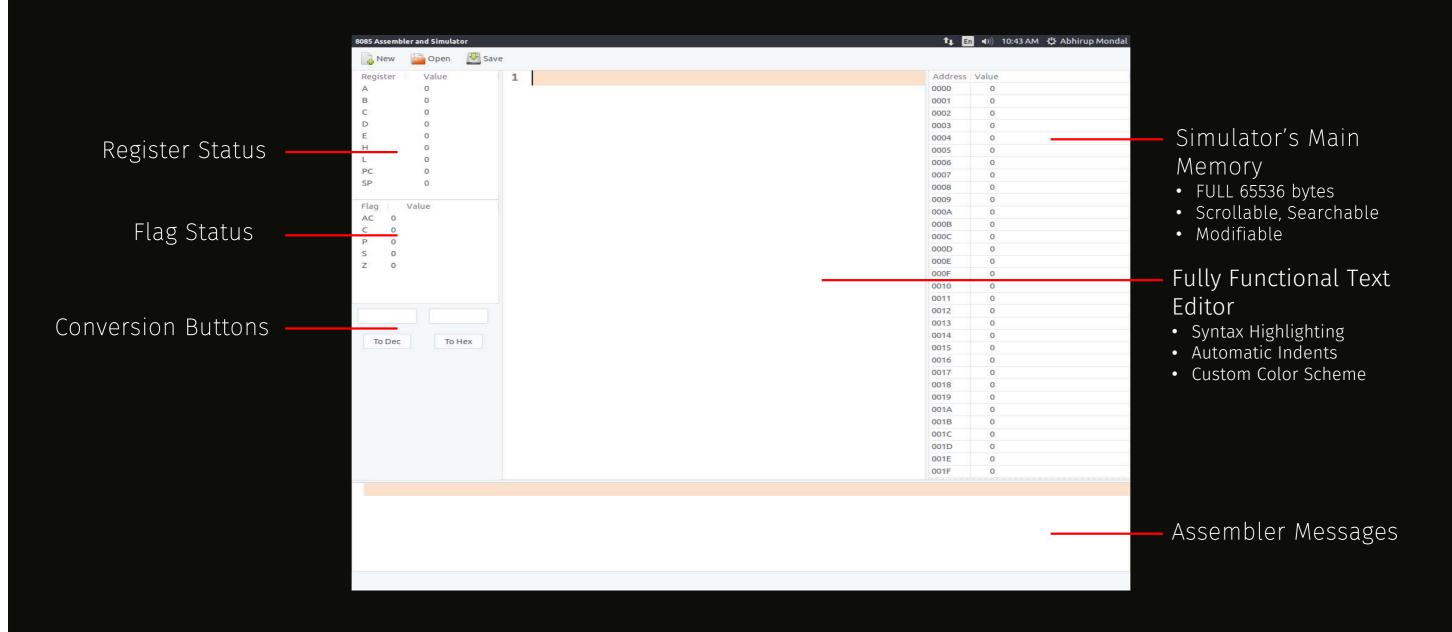
```
gtkmm-3.0-dev
pango
gtksourceviewmm-3.0-dev
g++
```

• To compile:

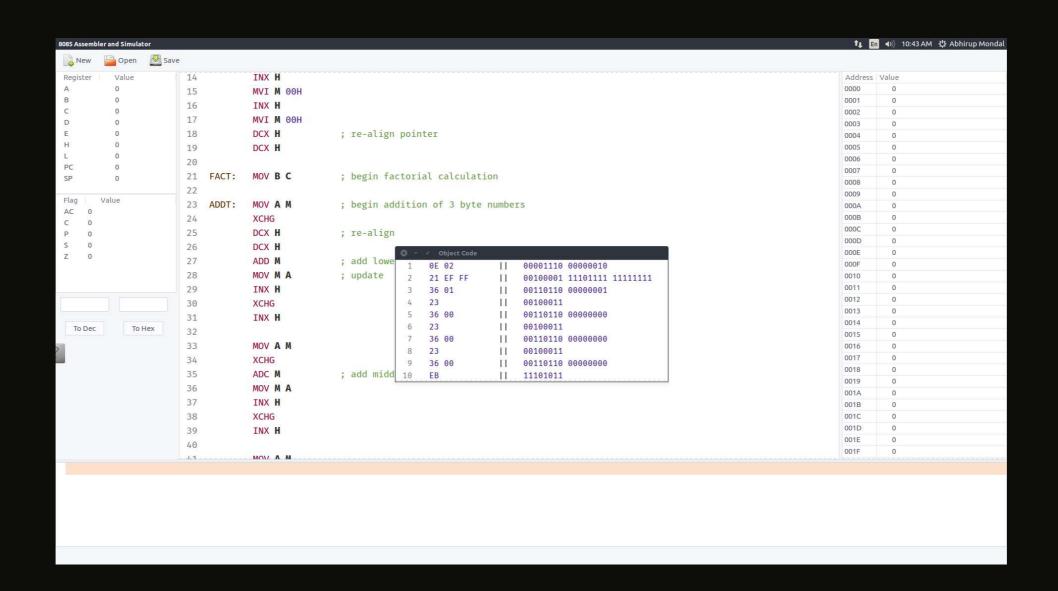
```
g++ -o simulator src/*.cpp src/*/*.cpp `pkg-config gtkmm-
3.0 pango gtksourceview-3.0 --cflags --libs` -std=c++11
```

./simulator

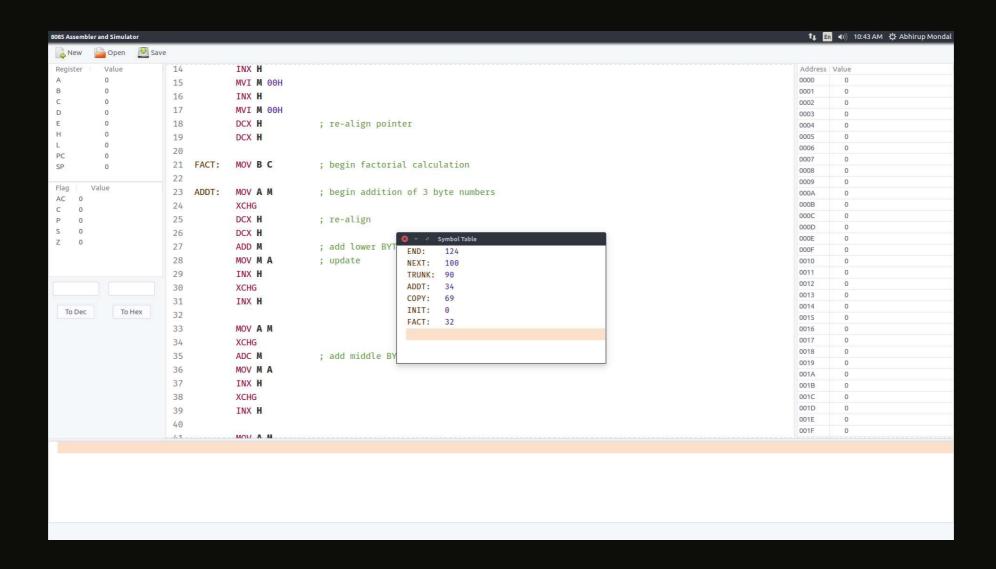
THE INTERFACE



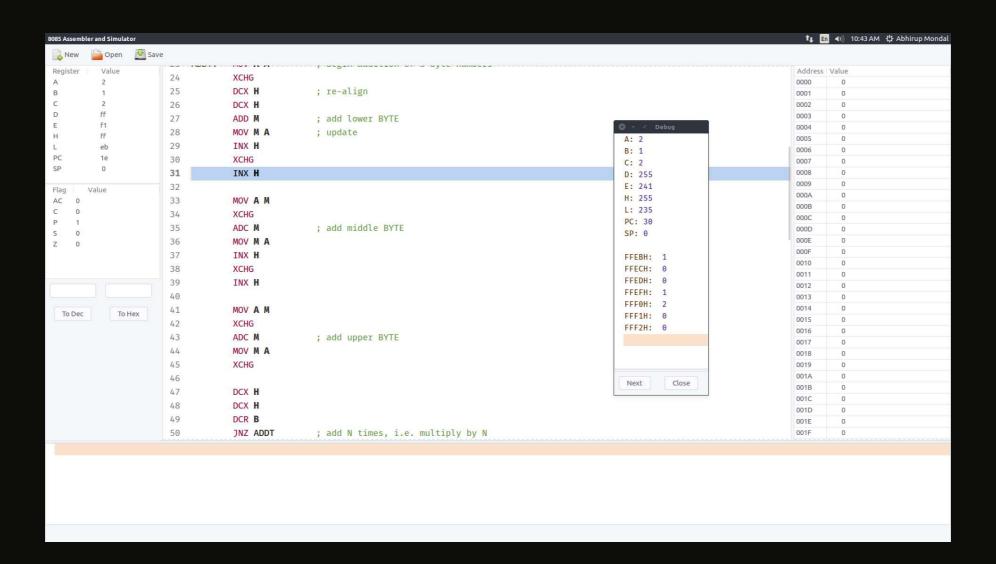
OBJECT CODE



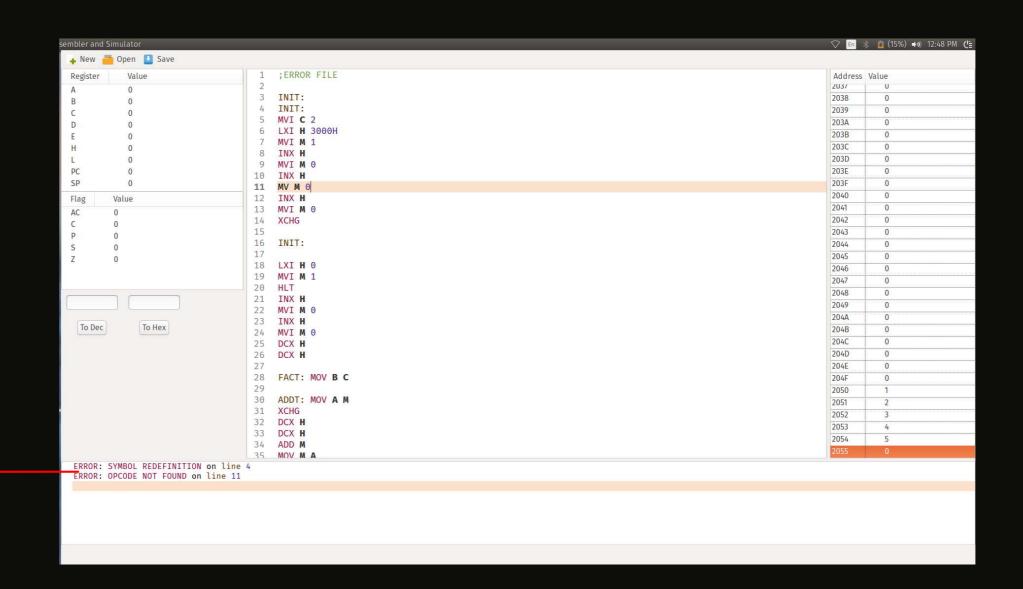
SYMBOL TABLE



DEBUG



ERROR LOCALIZATION



Error Messages