

CSE439s: Design of Compilers

Compiler Project – Second Milestone (Parser)

Team Members

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Drive Link

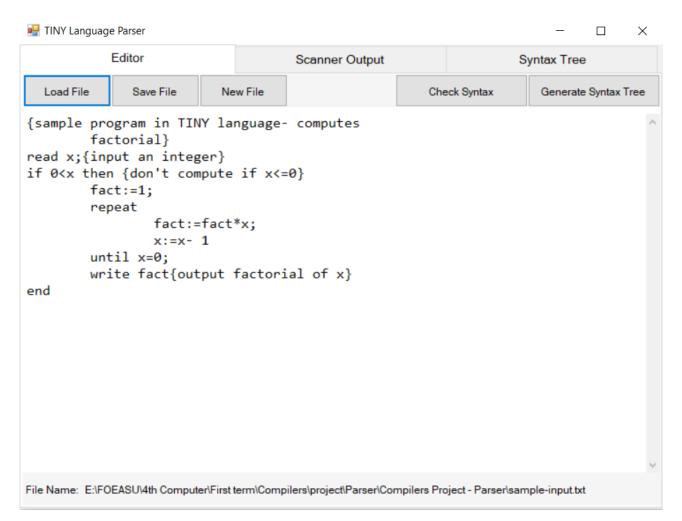
https://drive.google.com/drive/folders/1SSC6Mf54Wpk1-7PgxOa1RNOALUCHUQX3?usp=share_link

It contains:

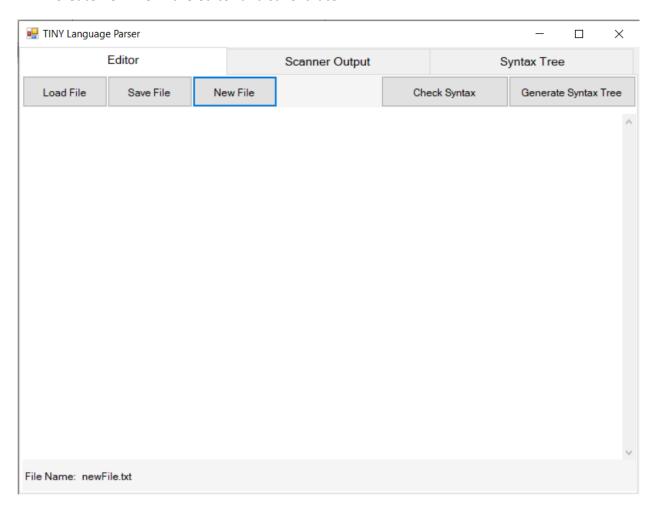
- the source code (Compilers Project Parser.zip)
- the exe with a sample input (exe + sample-input.zip)

Features and Screenshots

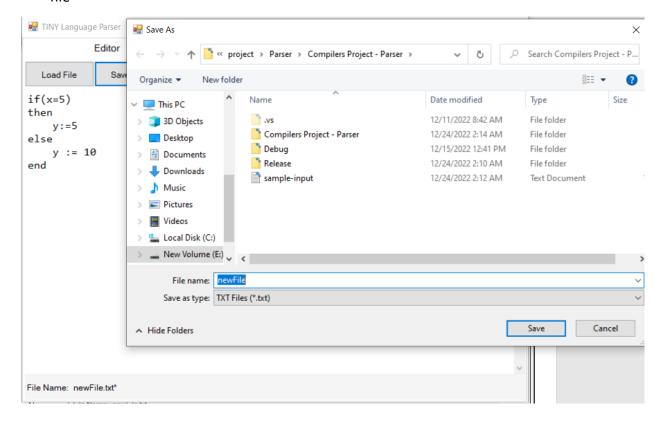
1- Editor tab with the ability to load code from a file



2- Create new file in the editor and save it later



3- Ability to save a newly created file and save later changes to it, or save changes to a loaded file

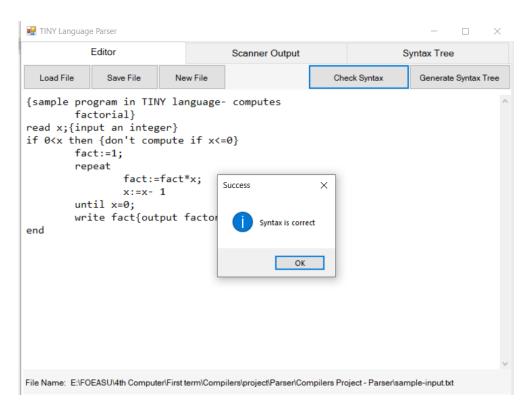


4- Name of opened file is displayed at the bottom bar, or displays newFile if the file is created from the editor.

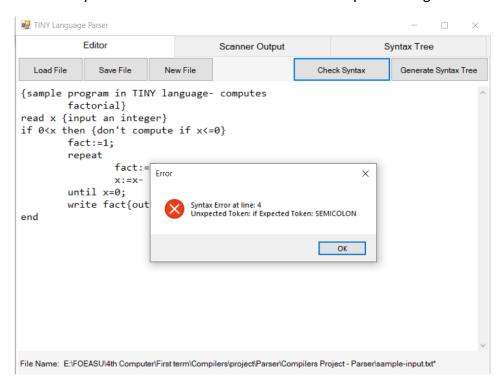
also the file name at the bottom shows whether the file is saved or not by displaying an (*) next the file name if it's changed

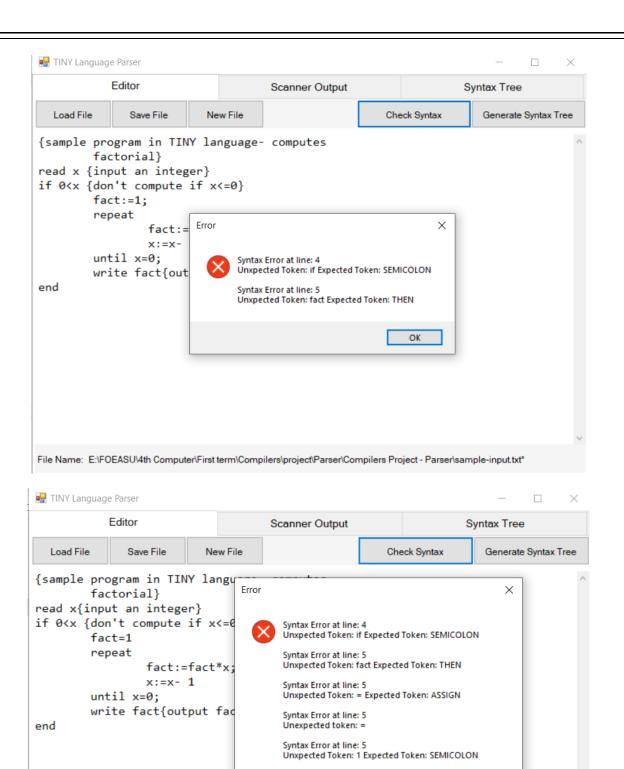


6- Ability to check syntax and show if the syntax is correct or not



7- Shows a list of syntax errors with the line number and helpful messages





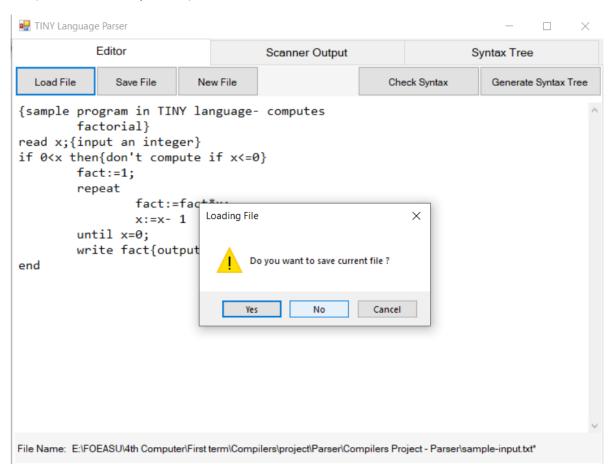
Syntax Error at line: 5 Unexpected token: 1 Syntax Error at line: 6

File Name: E:\FOEASU\4th Computer\First term\Compilers\project\Parser\Compilers Project - Parser\sample-input.txt*

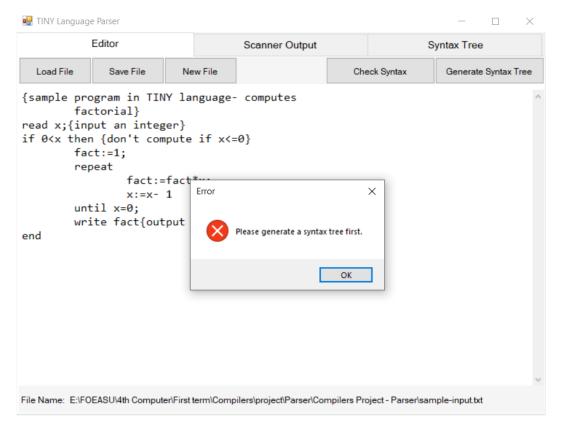
Unxpected Token: repeat Expected Token: SEMICOLON

OK

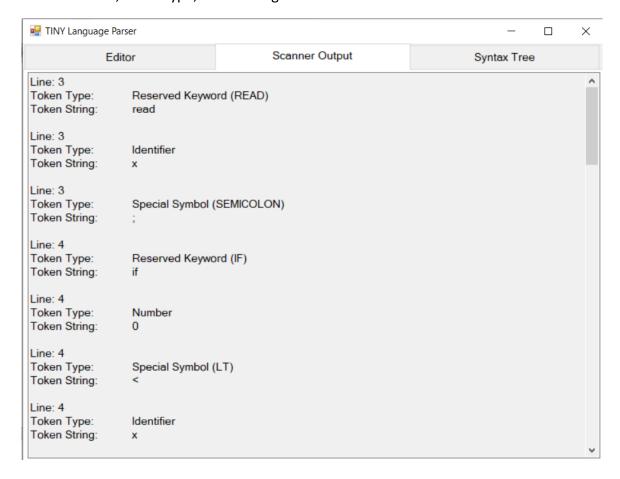
8- Shows an alert if the user changed the file and tried to open a new file or load one (overwrite the open file)



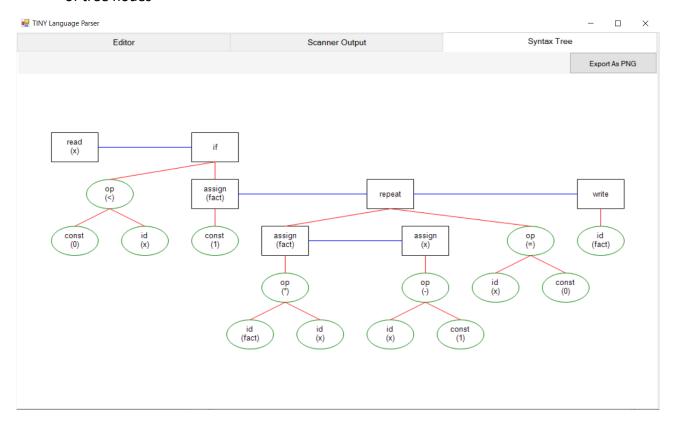
9- The Scanner output tab and the Syntax tree tab are disabled by default till check syntax or Generate Syntax tree are pressed respectively

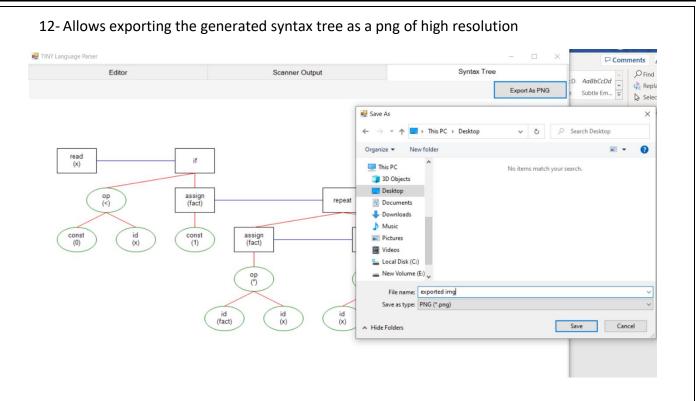


10- Shows the scanner output (tokens) line number, token type, token string



11- Draw the syntax tree, implemented natively without the use of any external libraries, the algorithm used for drawing the tidy tree is completely dynamic and prevents overlapping of tree nodes

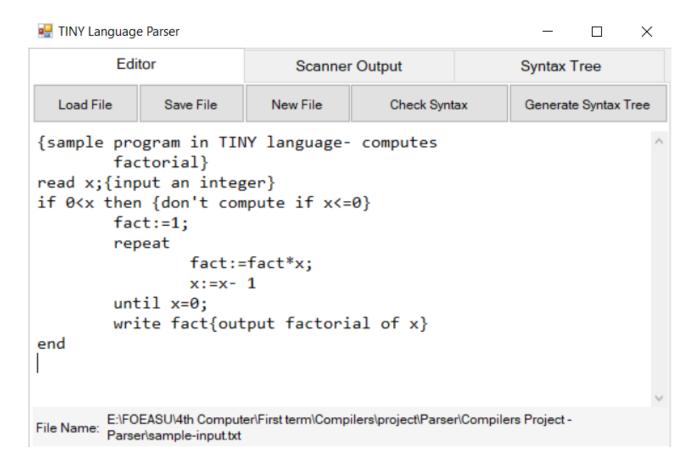


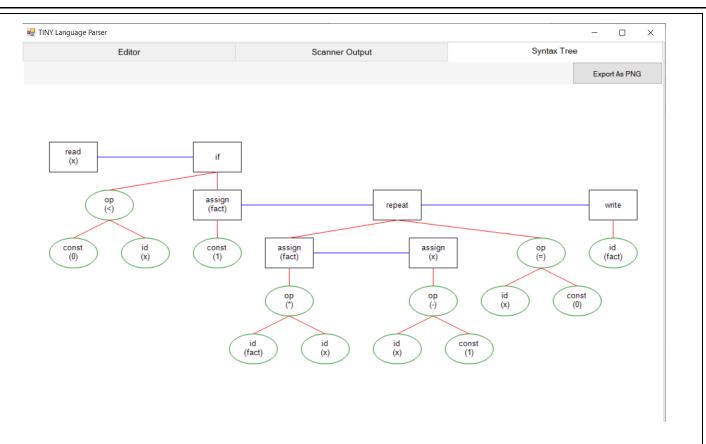


13-The GUI is completely Responsive with any screen size

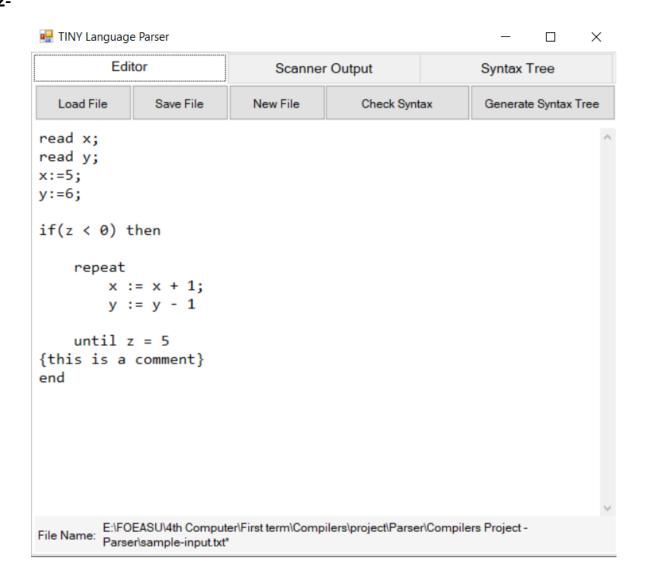
Sample Programs with the corresponding syntax tree

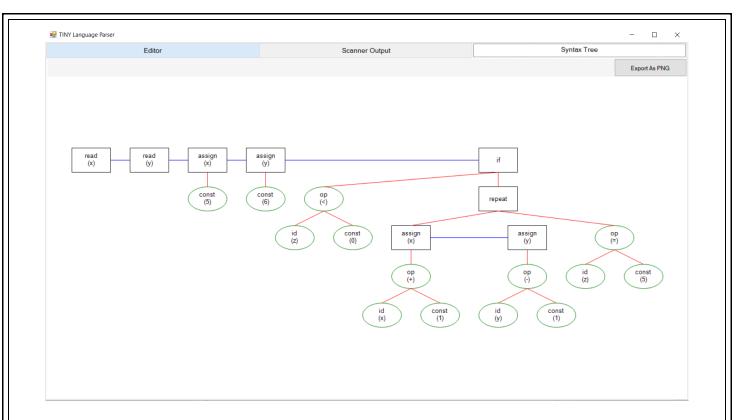
1-





2-





3-

