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Programming Languages  
Project 4  
User’s Manual  
  
Setup and Compilation**1. Download and unzip the submission from eLearning on a Windows box with Python installed.  
2. The submission includes:

* fsa.py
* fsa.txt
* part\_one.lsp
* part\_two.lsp (generated from fsa.py)
* run.bat
* theString.txt
* UsersManual.docx
* xlwin32.exe

3. Environment: This program has been tested on Windows and will run there.

**Running the program part 1:** Be sure that no files have been moved from the given folder. To run, open “xlwin32.exe”, type “(load “part\_one.lsp”)”, then type “(demo)” to run the program as intended. \*\*\*WARNING\*\*\* This program evaluates the path in “theString.txt” based on a hard-coded FSA and decides if it is legal or not. The included text file “fsa.txt” is the basis for the hard-coded FSA, but if it is changed, this program may deem the path illegal.

**Running the program part 2a:** Be sure that no files have been moved from the given folder. The script is called “run”. Execute the command “./run” from the submitted folder’s directory on the command line to compile and run the Python program that generates the Lisp program. No command line arguments are required for the script, nor are they checked.

**Running the program part 2b:** Be sure that no files have been moved from the given folder. Part 1 generates a Lisp program that checks if the path string is legal based on the “fsa.txt” given to the Python program. To run, open “xlwin32.exe”, type “(load “part\_two.lsp”)”, then type “(demo)” to run the program as intended.

User input: no user interaction with the program is required.

**Output:** All output is directed to the console, whether it is Python or Lisp.