

Program Assignment 2

Austin Saporito

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COSC 461 - Compilers

I am making a program using lex to convert HTML to LATEX, I used the program lex that generates lexical analyzers to tokenize words. I had to convert paragraphs, headers, preformatted paragraphs, and ordered and unordered lists from HTML to LATEX. Within those, I have to be conscious of word formatting, like bolding, italicizing, subscripting, etc. text to the LATEX format. First, I read the lab write up so I knew what had to be done, then I looked at the given files and made sure I knew how to run it. After that, I started implementing header 2 and 3 which was fairly simple since Dr. Jantz gave us header 1. Problems occurred when I got to "<p>". I didn't know how to nest lexical analyzers so I spent more time than I would care to admit on that, considering all I had to do was look more carefully at what was given to us. I then was told to look at the comment part of what Dr. Jantz gave to us and it started making sense. I decided I would understand what he was doing for comment. After that, I had no problem at all and was able to get done with the lab in about 1-2 hours. I almost implemented one thing that would've not only been wrong but a whole lot more code. While searching on how to nest lexical analyzers I thought at one point I had to write C code. So, what I almost did was when I found something I would then go through it, and for any instance of what I wanted to replace I would swap out with the latex equivalent. I knew that wasn't right since the assignment was for writing Lex code, not C code so I am happy I did not waste my time or brainpower going down that rabbit hole.