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CMPSC 121

Lab 5

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Reflection

This first part of this lab where I had to debug the existing program was in my opinion more difficult than the second half of generating a new one. While there were some obvious errors, like formatting and misspelling. I had not seen a set of missing brackets around an if statement which was causing some errors for me. I think the most difficult part what understand what the program was supposed to output at a first glance. I had to go through the program line by line to get a strong grasp on how the minimum balance charge should be calculated and how check fees should be calculated.

On part 2, this project I really enjoyed. I did get hung up on accounting for the situation of daytime minutes being over the limit and nighttime minutes being over the limit. I was able to fix this by adding an elseif statement before checking each of them individually (in the situation where day minutes were over the limit and night was not and vice versa). I believe I constructed an efficient program by setting constants for all knowns first. This was something I learned through my physics and chemistry courses – writing down what you know to be true and always true first. From there I then wrote some pseudo code out and begin with writing the prompts. Switches came in handy while writing this, I found them to be very useful when writing a condition that was plan dependent.