Samuel Bailey

Project 1 AYED

IT-140

Variables in this source code include:

rentalCode, rentalPeriod, odoStart, odoEnd, totalMiles, baseCharge, averageDayMiles, extraMiles, mileCharge, averageWeekMiles, and amtDue.

rentalCode and rentalPeriod are defined by the user, every other variable is used for calculating the rest of how much to charge the user for driving.   
Throughout the script I used global variables. I also used some user defined variables as well. I used global variables so I could recall them as needed throughout the script. The user defined variables were needed to know what to charge the user for renting the car.   
Most of the data variables were pretty simple to create, everything just needed to be thought out before writing the code.   
Some problems that came up with some of the data variables were some logical bugs. I only had one major bug that stumbled me for a period of time longer than I am willing to admit.   
Without the use of variables I would have been forced to hard code everything in the problem set which is not only bad code but not practical. It would have been more work to hard code the entire project than just doing the math.   
  
Without branching code the usefulness Is almost completely gone. Branching is similar to control flow of code which is how the code takes one input then that input combines and adjusts with other variables to create the final result. At least in this script.   
We need branches in our script to be able to narrow down logic to receive the result we are looking for in writing the script.   
In the opening statement of projectOne we take in an input from the user and put it through a branch to see if it falls into a category. That branch decided which direction to go or path to go down in the code.   
Without branching you couldn’t simplify problems down one path way which would make it almost impossible to write code with scenarios if code can’t adjust to a problem then it is useless.   
Some concerns that could come up is in more advanced and longer code I could see a potential problem when trying to follow longer branches to get to a bug or something of that sort.   
  
Some bugs that came with writing this script were mainly small syntax errors from lack of remembering how to write in python. Oddly enough I came to the conclusion that I have not written in python before. I learned primary in java, so most of the problems I faced were with the layout of where somethings go. There was a logical bug in the very beginning of writing but if I am being honest that was almost four weeks ago when I wrote the code and quite frankly I do not remember where the bug was however I am sure it is gone now.