7-2 Final Project Script Three Submission: ATM Script

Initially, even though my functions worked, I did not include any parameters for them. I understand the use of parameters, but as the functions worked properly, I didn't see the utilization of them in this script, they are however included in my find draft. After doing this, I needed to declare the variables 'deposit_amount' and 'withdrawal_amount' prior to defining the functions, otherwise I would get "NameError: name 'deposit_amount' is not defined". That was the main issue I corrected in the final script.

I had several email threads going with the Python Tutor group, they agreed also that this exercise perhaps wasn't the best to stress the importance of parameters. We also didn't feel it was necessary to have a function for 'balance' as you could simply print the 'account_balance' variable in the conditional statement used for userChoice.

Per the rubric guidelines:
1. Collect customer input
    (a) Line 36 when defining variable 'userChoice' => this input selects which function will be called
    (b) Lines 16 and 21 are float inputs asking the user what amount of money they would like to deposit or withdraw.
2. Calculate the ending balance
    (a) Lines 17 and 25 calculate the ending balance after a deposit or withdraw
    (b) These are temporary values, if you were to loop through this (in a separate file attached) the value will not update, it will reset to the original 'account_balance'
3. Display the results to the customer
    (a) Lines 13, 18, 23, and 26 print results relating to the transaction (function) called on prints those details.
4. Create examples of custom functions in your script.
    (a) There are three defined functions with parameters - balance, deposit, withdrawal
5. Create examples of input (parameters) that are utilized within the function(s) in your script.
    (a) There are three parameters used in the functions, two of them are used as user input ('deposit_amount' and 'withdrawal_amount').
    (b) Looking at these parameters, it could be possible to just have two, 'account_balance' and 'amount'. The variable would be assigned a local value within the function, and simplify the code.
6. Create examples of functions that return the correct output in your script.
    (a) I'm not 100% sure what this is asking, but I'm leaning towards the use of the functions within the conditional statement on lines 40 - 50.
    (b) This if / elif conditional branch statement uses the input from userChoice to decide which function will be executed.

In a separate file (ATM_with_loop.py) I included a while loop. After the user has made their first transaction decision and the associated function has been called and correct output displayed, the user has an option to make another transaction, or exit the program.

As with other Python scripts, I reached out to numerous sources for extra help including, StackOverflow, Codecademy, and the Python Tutor group. I also use Atom to write the code, because I enjoy the interface and split screen, and I use IDLE to run the program and debug. Finding IDLE was great, and I don't have to use repl.it anymore to run code. I must note, that

spelling is one of the number one flaws I have when writing code, this is why I love Atom. Atom, and other IDE's, recall previous written variables and script, where IDLE does not have that feature (or I have yet to discover it). Using multiple platforms may not be ideal for time management, and also getting your files confused when saving them, but it works for me, for now.