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 CS213 Fall 2020 Project 3
 Dr. Lily Chang

Test Case #	Purpose of Test Case	Input Data	Expected Output
1	Test the open account function. Create a checking, savings, money market account, and a duplicate of the checking account at the end.	{Szymon, Gogolowski, 100, 1/1/2020, Checking, direct deposit}, {Julio, Collado, 200, 11/1/2020,Savings}, {Jane, Doe, 1000, 3/31/1999, Money Market}, {Szymon Gogolowski, 100, 1/1/2020, Checking, direct deposit}	Account opened and added to the database. Account opened and added to the database. Account opened and added to the database. Account is already in the database.
2	Testing for missing data in the open account function. Leaving each field empty one at a time.	{empty, asd, 1, 1/1/2020, Savings}, {asd, empty, 1, 1/1/2020, Checking}, {asd, asd, empty, 1/1/2020, Savings}, {asd,asd,1,empty,Money Market}, {asd,asd,1,1/1/2020, empty}	Missing input, try again. Missing input, try again. Missing input, try again. Missing input, try again. Missing input, try again.
3	Test invalid input for the open account function such as non-integer balance less than 0 and invalid dates	{Szymon, Gogolowski, -1000,1/1/2020,Checking} {Julio, Collado, 1000, 13/31/2020, Savings} {Bob, Bob, -1, 2/29/1999,Money Market} {asd,asd,1,a/a/a,Checking}	Input mismatch. 13/31/2020 is not a valid date. Input Mismatch. Input Mismatch.
4	Create four Checking accounts. Make sure that the monthly interest and fees are correctly calculated.	{Szymon Gogolowski,10000, 1/1/2020, Checking, Direct Deposit} {Bob Bobby, 10000,1/1/2020,Checking} {Jane Doe, 1499, 1/1/2020, Checking, Direct Deposit} {Bob Doe, 1499 1/1/2020,	{Szymon Gogolowski, new balance: \$10,000.42, fee: \$0.00, interest: \$0.42} {Bob Bobby, new balance: \$10,000.42, fee: \$0.00, interest: \$0.42}

		Checking}	{Jane Doe, new balance: \$1,499.06, fee: \$0.00, interest: \$0.06} {Bob Doe, new balance: \$1,474.06, fee: \$25.00, interest: \$0.42}
5	Test the isValid() in date. Attempt to create two accounts with invalid dates and two accounts with valid dates.	{Julio Collado, 100, 4,-1,2019,Checking} {Bob Doe, 100, 11/31/2020, Savings} {Jane Doe, 100, 11/30/2020, Checking} {Joe Doe 100, 2/20/2019, Money Market}	4/-1/2019 is not a valid date. 11/31/2020 is not a valid date. Account opened and added to the database. Account opened and added to the database.
6	Create four Money Market accounts. Make sure that the monthly interest and fees are correctly calculated.	Import text file with: {Szymon Gogolowski,2000,1/1/2020,Money Market, 7 withdrawals} {Jane Doe, 2000 1/1/2020, Money Market,3 withdrawals} {Julio Collado, 4000, Money Market, 7 withdrawals} {Bob Doe, 4000,1/1/2020, Money Market 3 withdrawals}	{Szymon Gogolowski, new balance: \$1,989.08, fee: \$12.00, interest: \$1.08} {Jane Doe, new balance: \$1,989.08, fee: \$12.00, interest: \$1.08} {Julio Collado, new balance: \$3,990.17, fee: \$12.00, interest: \$2.17} {Bob Doe, new balance: \$4,002.17, fee: \$0.00, interest: \$2.17}
7	Import an empty text file	Empty text file called input.txt	input.txt is empty.
8	Import the database.txt file provided by Dr.Chang	database.txt	Account opened and added to the database. (x12) database.txt was successfully imported.

9	Import a text file with invalid entries	S,Jane,Doe,500.0,11/1/2019 S,John,Doe,500.0,1/1/2010,true C,Jane,Doe,500.0,2/29/2008,false C,Jason,Brown,300.12,6/28/2015 S,Mary,Johnson,2000.88,7/31/2014,true	Invalid data. Account opened and added to the database. Account opened and added to the database. Invalid data. Account opened and added to the database. database - Copy.txt was successfully imported.
10	Testing missing data outputs for close account function. Leaving each field open.	{empty, asd, Checking} {asd, empty, Savings} {asd, bob, empty} {empty, empty, Money Market}	Missing input, try again. Missing input, try again. Missing input, try again. Missing input, try again.
11	Testing invalid input such as non integer numbers or numbers less than 0 for Deposit/Withdrawal and missing data outputs.	{hello, empty, 1, Checking} Deposit {empty, hello, 1, Savings} Withdrawal {hello, world, -1, Checking} Deposit {hello, world, jk, Savings} Withdrawal {hello, world, 1, empty} Deposit {hello, world, 1, Money Market} Withdrawal	Missing input, try again. Missing input, try again. Input data type mismatch. Input data type mismatch. Missing input, try again. Account does not exist.
12	Testing import, export, and print accounts on Account database for no file being selected or	Import, cancel Import, random text file	No file was selected, try again. Invalid data. Data.txt was successfully imported.