#Challenge Problem 33: Bank Deposit and Withdrawal Program

def get\_info():

"""Get user information to store in a dict that represets a bank account"""

print("Welcome to the Python First National Bank.")

#Get user input

name = input("\nHello, what is your name: ").title().strip()

savings = int(input("How much money would you like to set up your savings account with: "))

checking = int(input("How much money would you like to set up your checking account with: "))

#Build a dict that represents a specific bank account

bank\_account = {

"Name":name,

"Savings":savings,

"Checking":checking,

}

return bank\_account

def make\_deposit(bank\_account, account, money):

"""Add money to a specific type of account"""

bank\_account[account] += money

print("\nDeposited $" + str(money) + " into " + bank\_account["Name"] + "'s " + account.lower() + "account.")

def make\_withdrawal(bank\_account, account, money):

"""Withdraw money from a specific type of account"""

#Check that the balance will still be positive after the withdrawal

if bank\_account[account] - money >= 0:

bank\_account[account] -= money

print("\nWithdrew $" + str(money) + " from " + bank\_account["Name"] + "'s" + account.lower() + "account.")

#Not enough money in the account to make the withdrawal

else:

print("\nSorry, by withdrawing $" + str(money) + " you will have a negative balance.")

def display\_info(bank\_account):

"""Display all key-value pairs in a given bank account"""

print("\nCurrent Account Information")

for key, value in bank\_account.items():

if key == "Name":

print(key + ": " + str(value))

else:

print(key + ": $" + str(value))

#The main code

#Create a bank account

my\_account = get\_info()

running = True

while running:

#Show the current state of the bank account

display\_info(my\_account)

#Get user input for the transaction information

account\_type = input("\nWhat Account would you like to access (Savings or Checking): ").title()

choice = input("What type of transaction would you like to make (Deposit or Withdrawal): ").title()

amount = float(input("How much money: "))

#Make the correct function call based off previous user input

if account\_type == "Savings" or account\_type == "Checking":

if choice == "Deposit":

make\_deposit(my\_account, account\_type, amount)

elif choice == "Withdrawal":

make\_withdrawal(my\_account, account\_type, amount)

else:

print("\nI'm sorry, we cannot do that for you today.")

else:

print("\nI'm sorry, we cannot do that for you today.")

#Allow users to make another transaction

choice = input("Would you like to make another transaction (y/n): ").lower()

if choice != "y":

display\_info(my\_account)

print("\nThank you. Have a great day!")

running = False