import os

import datetime

class FinanceTracker:

def \_\_init\_\_(self, file\_path='transactions.txt'):

self.file\_path = file\_path

self.transactions = []

self.load\_transactions()

def load\_transactions(self):

if os.path.exists(self.file\_path):

with open(self.file\_path, 'r') as file:

lines = file.readlines()

self.transactions = [line.strip() for line in lines]

def save\_transactions(self):

with open(self.file\_path, 'w') as file:

for transaction in self.transactions:

file.write(transaction + '\n')

def add\_transaction(self, amount, category, description):

timestamp = datetime.datetime.now().strftime('%Y-%m-%d %H:%M:%S')

transaction = f"{timestamp} | {amount:.2f} | {category} | {description}"

self.transactions.append(transaction)

self.save\_transactions()

print("Transaction added successfully.")

def view\_transactions(self):

if not self.transactions:

print("No transactions recorded.")

else:

for transaction in self.transactions:

print(transaction)

def calculate\_balance(self):

balance = 0

for transaction in self.transactions:

amount = float(transaction.split('|')[1].strip())

balance += amount

return balance

def main():

finance\_tracker = FinanceTracker()

while True:

print("\nFinance Tracker Menu:")

print("1. Add Transaction")

print("2. View Transactions")

print("3. View Balance")

print("4. Exit")

choice = input("Enter your choice (1-4): ")

if choice == '1':

amount = float(input("Enter the transaction amount: "))

category = input("Enter the transaction category: ")

description = input("Enter a description: ")

finance\_tracker.add\_transaction(amount, category, description)

elif choice == '2':

print("\nAll Transactions:")

finance\_tracker.view\_transactions()

elif choice == '3':

balance = finance\_tracker.calculate\_balance()

print(f"\nCurrent Balance: ${balance:.2f}")

elif choice == '4':

print("Exiting Finance Tracker. Goodbye!")

break

else:

print("Invalid choice. Please enter a number between 1 and 4.")

if \_\_name\_\_ == "\_\_main\_\_":

main()