MINI PROJECT

import json

from datetime import datetime

class ExpenseTracker:

def \_\_init\_\_(self, filename='expenses.json'):

self.filename = filename

self.expenses = self.load\_expenses()

def load\_expenses(self):

try:

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

return json.load(file)

except FileNotFoundError:

return []

def save\_expenses(self):

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

json.dump(self.expenses, file, indent=4)

def add\_expense(self, date, category, amount):

expense = {

'date': date,

'category': category,

'amount': amount

}

self.expenses.append(expense)

self.save\_expenses()

print(f"Added expense: {expense}")

def view\_expenses(self):

if not self.expenses:

print("No expenses logged.")

return

print("\n--- Expenses ---")

for expense in self.expenses:

print(f"Date: {expense['date']}, Category: {expense['category']}, Amount: ${expense['amount']:.2f}")

def view\_summary(self):

total\_expense = sum(expense['amount'] for expense in self.expenses)

print(f"\nTotal Expenses: ${total\_expense:.2f}")

def run(self):

while True:

print("\n--- Expense Tracker ---")

print("1. Log Expense")

print("2. View All Expenses")

print("3. View Summary")

print("4. Exit")

choice = input("Choose an option (1-4): ")

if choice == '1':

date = input("Enter date (YYYY-MM-DD): ")

category = input("Enter category: ")

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

self.add\_expense(date, category, amount)

elif choice == '2':

self.view\_expenses()

elif choice == '3':

self.view\_summary()

elif choice == '4':

print("Exiting the Expense Tracker.")

break

else:

print("Invalid choice. Please try again.")

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

tracker = ExpenseTracker()

tracker.run()

OUTPUT:



