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MOtion cut | python programming project 3

Expenses Tracker

WordWise: Effortlessly Explore Your Text

INPUT

import json

DATA\_FILE = 'expenses.json'

def load\_expenses():

try:

with open(DATA\_FILE, 'r', encoding='utf-8') as file:

return json.load(file)

except FileNotFoundError:

return []

def save\_expenses(expenses):

with open(DATA\_FILE, 'w', encoding='utf-8') as file:

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

def add\_expense(expenses):

try:

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

category = input("Enter the expense category (Food, Transportation, etc.): ")

description = input("Enter a brief description of the expense: ")

expenses.append({"amount": amount, "category": category, "description": description})

save\_expenses(expenses)

print("Expense added successfully.")

except ValueError:

print("Invalid amount. Please enter a number.")

def show\_summary(expenses):

if not expenses:

print("No expenses to show.")

return

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

print(f"\nTotal Expense: {total\_expense}")

by\_category = {}

for expense in expenses:

category = expense['category']

by\_category[category] = by\_category.get(category, 0) + expense['amount']

for category, total in by\_category.items():

print(f"{category}: {total}")

def main():

expenses = load\_expenses()

while True:

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

print("1. Add an expense")

print("2. Show summary")

print("3. Exit")

choice = input("Choose an option: ")

if choice == '1':

add\_expense(expenses)

elif choice == '2':

show\_summary(expenses)

elif choice == '3':

print("Exiting...")

break

else:

print("Invalid option, please try again.")

if \_\_name\_\_ == '\_\_main\_\_':

main()

OUTPUT

