

# Mini Project – Personal Expense Tracker using Python

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② import json

from datetime import datetime

# Load existing data or start fresh

def load_expenses(filename="expenses.json"):

    try:

        with open(filename, "r") as file:

            return json.load(file)

    except FileNotFoundError:

        return []

# Save data to file

def save_expenses(expenses, filename="expenses.json"):

    with open(filename, "w") as file:

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

# Add a new expense

def add_expense(expenses):

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

    category = input("Enter category (Food, Transport, etc.): ")

    date = input("Enter date (YYYY-MM-DD) or press Enter for today: ")

    if date == "":

        date = datetime.today().strftime("%Y-%m-%d")

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

    save_expenses(expenses)

    print("✓ Expense added successfully!\n")
```

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# View summary

def view_summary(expenses):
    total = 0
    category_summary = {}
    for exp in expenses:
        total += exp["amount"]
        cat = exp["category"]
        category_summary[cat] = category_summary.get(cat, 0) + exp["amount"]

    print("\n📊 Summary by Category:")
    for cat, amt in category_summary.items():
        print(f" {cat}: ₹{amt}")

    print(f"\n💰 Total Spending: ₹{total}\n")

# Menu

def main():
    expenses = load_expenses()

    while True:
        print("----- Personal Expense Tracker -----")
        print("1. Add Expense")
        print("2. View Summary")
        print("3. Exit")
        choice = input("Enter your choice: ")

        if choice == "1":
            add_expense(expenses)
        elif choice == "2":
            view_summary(expenses)
        elif choice == "3":
```

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print("Thank you! 🙌")  
break  
else:  
    print("Invalid choice. Try again.\n")  
  
if __name__ == "__main__":  
    main()
```