Title: Personal Expense Tracker

Problem Statement:

A simple Python program designed to record, manage, and summarize daily expenses efficiently.

Objectives:

- Record expenses with date, amount, and category
- View all recorded expenses
- Calculate the total amount spent
- Display category-wise expense summary
- Save and load data using a CSV file
- Use Python lists, dictionaries, loops, and file handling

Design Overview:

Functions Used:

- add_expense() – Adds a new expense
- view_expenses() – Shows all expenses
- total_spent() – Calculates total spending
- summary_by_category() – Category-wise totals
- save_to_file() – Saves expenses to CSV
- load_from_file() – Loads expenses from CSV
- Main menu loop – Handles user choices

```
1. Add Expense
2. View Expenses
3. Total Spent
4. Category Summary
5. Save
6. Exit
Enter choice:  1
Enter date (DD-MM-YYYY):  25-9-2006
Enter amount:  150
Enter category:  food, travel , shopping
Expense added!

1. Add Expense
2. View Expenses
3. Total Spent
4. Category Summary
5. Save
6. Exit
Enter choice:  2
{'date': '25-9-2006', 'amount': 150.0, 'category': 'food, travel , shopping'}

1. Add Expense
2. View Expenses
3. Total Spent
4. Category Summary
5. Save
6. Exit
Enter choice:  3
Total Spent = 150.0
```

```
1. Add Expense
2. View Expenses
3. Total Spent
4. Category Summary
5. Save
6. Exit
Enter choice:  4
{'food, travel , shopping': 150.0}

1. Add Expense
2. View Expenses
3. Total Spent
4. Category Summary
5. Save
6. Exit
Enter choice:  5
Saved!

1. Add Expense
2. View Expenses
3. Total Spent
4. Category Summary
5. Save
6. Exit
Enter choice:  6
```

Conclusion & Future Improvements:

This project demonstrates how Python can be used for real-life applications like expense tracking. It strengthens understanding of core Python concepts including lists, dictionaries, loops, and file handling.

Future enhancements may include adding a GUI, visual charts, monthly reports, or database integration.