2/9/25, 10:55 PM Week1 Project

Week 1 Final Project: Expense Tracker § Now that you've learned basic Python, loops, lists, tuples, conditionals, and dictionaries, let's apply all these concepts in a real-world project: Expense Tracker. Project Goal: Track daily expenses Store expenses in a dictionary. Allow users to add, view, delete, and analyze expenses. Full Code Implementation

```
In [4]:
       # Expense Tracker Dictionary
        expenses = {}
        # Function to add an expense
        def add expense():
            date = input("Enter the date (YYYY-MM-DD): ")
            category = input("Enter expense category (Food, Transport, etc.): ")
            amount = float(input("Enter expense amount: "))
            if date not in expenses:
                expenses[date] = []
            expenses[date].append({"category": category, "amount": amount})
            print(f"Expense of ₹{amount} added under '{category}' on {date}.\n")
        # Function to view all expenses
        def view_expenses():
            if not expenses:
                print("No expenses recorded yet.\n")
                return
            print("\n = All Expenses = ")
            for date, expense_list in expenses.items():
                for expense in expense_list:
                    print(f" ➤ Category: {expense['category']}, Amount: ₹{expense['amount
        # Function to calculate total expenses
        def total_expenses():
            total = sum(expense["amount"] for expense list in expenses.values() for expense
            print(f"\n is Total Expenses: ₹{total}\n")
        # Function to delete an expense
        def delete expense():
            date = input("Enter the date of the expense to delete (YYYY-MM-DD): ")
            if date in expenses:
                print("\n ★ Expenses on", date)
                for i, expense in enumerate(expenses[date]):
                    print(f"{i+1}. Category: {expense['category']}, Amount: ₹{expense['amou
                choice = int(input("Enter the expense number to delete: ")) - 1
                if 0 <= choice < len(expenses[date]):</pre>
                    deleted = expenses[date].pop(choice)
                    print(f"Deleted expense: {deleted['category']} - ₹{deleted['amount']}\n
                    if not expenses[date]: # Remove the date if no expenses Left
                        del expenses[date]
                else:
                    print("Invalid selection!\n")
            else:
```

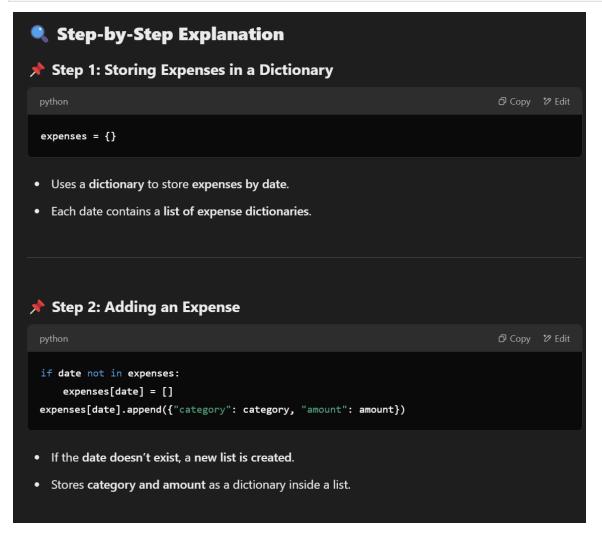
2/9/25, 10:55 PM Week1 Project

```
print("No expenses found for this date.\n")
 # Main Menu
 while True:
     print("\n ■ Expense Tracker ■ ")
     print("1. Add Expense")
     print("2. View Expenses")
     print("3. Calculate Total Expenses")
     print("4. Delete an Expense")
     print("5. Exit")
     choice = input("Enter your choice (1-5): ")
     if choice == "1":
         add expense()
     elif choice == "2":
         view_expenses()
     elif choice == "3":
         total expenses()
     elif choice == "4":
         delete_expense()
     elif choice == "5":
         print("Exiting Expense Tracker. Goodbye!")
         break
     else:
         print("Invalid choice! Please enter a valid option.\n")
Expense Tracker
1. Add Expense
2. View Expenses
3. Calculate Total Expenses
4. Delete an Expense
5. Exit
Expense of ₹5000.0 added under 'food' on 2025-02-06.
Expense Tracker
1. Add Expense
2. View Expenses
3. Calculate Total Expenses
4. Delete an Expense
5. Exit
Expense of ₹500.0 added under 'transport' on 2025-02-07.
Expense Tracker
1. Add Expense
2. View Expenses
3. Calculate Total Expenses
4. Delete an Expense
5. Exit
```

Total Expenses: ₹5500.0

- 💵 Expense Tracker 💵
- 1. Add Expense
- 2. View Expenses
- 3. Calculate Total Expenses
- 4. Delete an Expense
- 5. Exit

Exiting Expense Tracker. Goodbye!



2/9/25, 10:55 PM Week1 Project

