🧾 Mini Project – Expense Tracker

Question / Problem Statement: Create a console-based Expense Tracker program in Python that allows the user to record daily expenses and view summaries like total spending. Use only the concepts learned till **Chapter 6** (loops, conditionals, lists, dictionaries, and basic input/output).

Project Details / Description:

You are required to build a simple personal finance management tool.
The program should allow the user to:

- Add an expense with details like date, category, description, and amount.
- View all recorded expenses in a clean format.
- Calculate total spending so far.
- Exit the program gracefully when the user chooses to.

All tasks must be implemented using **loops**, **if-else**, **lists**, and **dictionaries** only. No user-defined functions or file handling should be used.

Sample Output:

```
Welcome to Expense Tracker 💸

======= MENU =======
1️⃣ Add Expense
2️⃣ View All Expenses
3️⃣ View Total Spending
4️⃣ Exit
====================
Enter your choice (1-4): 1

Enter date (DD-MM-YYYY): 05-11-2025
Enter category (Food, Travel, Shopping, etc): Food
```

```
Enter short description: Lunch
Enter amount (₹): 150

✅ Expense added successfully!

======= MENU =======
1️⃣ Add Expense
2️⃣ View All Expenses
3️⃣ View Total Spending
4️⃣ Exit
====================
Enter your choice (1-4): 3

💰 Total Spending = ₹150
```

Concept	Purpose
while loop	To repeat the menu until user exits
if-elif-else	To handle menu options
list	To store multiple expenses
dictionary	To store details of each expense
for loop	To display and calculate totals
input() / print()	For user interaction

Project Solution Code

```
# ----------------------------------
# 💰 EXPENSE TRACKER (No Functions)
# ----------------------------------

expenses = []  # list of expense dictionaries

print("Welcome to Expense Tracker 💸")

while True:
    print("\n======= MENU =======")
    print("1️⃣ Add Expense")
    print("2️⃣ View All Expenses")
    print("3️⃣ View Total Spending")
    print("4️⃣ View Spending by Category")
    print("5️⃣ Exit")
    print("====================")

    choice = input("Enter your choice (1-5): ")

    # 1️⃣ Add Expense
    if choice == "1":
        date = input("Enter date (DD-MM-YYYY): ")
        category = input("Enter category (Food, Travel, Shopping,
etc): ")
        description = input("Enter short description: ")
        amount = float(input("Enter amount (₹): "))

        expense = {
            "date": date,
```

```
            "category": category,
            "description": description,
            "amount": amount
        }
        expenses.append(expense)
        print("\n✅ Expense added successfully!")

    # 2️⃣ View All Expenses
    elif choice == "2":
        if len(expenses) == 0:
            print("\n⚠️ No expenses recorded yet.")
        else:
            print("\n--- All Expenses ---")
            i = 1
            for e in expenses:
                print(f"{i}. {e['date']} | {e['category']} |
{e['description']} | ₹{e['amount']}")
                i += 1
            print("----------------------")

    # 3️⃣ View Total Spending
    elif choice == "3":
        total = 0
        for e in expenses:
            total += e["amount"]
        print(f"\n💰 Total Spending = ₹{total}")

    # 4️⃣ Spending by Category
    elif choice == "4":
        if len(expenses) == 0:
            print("\n⚠️ No expenses recorded yet.")
        else:
            summary = {}
            for e in expenses:
                cat = e["category"]
                if cat in summary:
                    summary[cat] += e["amount"]
                else:
                    summary[cat] = e["amount"]

            print("\n📊 Spending by Category:")
```

```
        for cat, amt in summary.items():
            print(f"{cat}: ₹{amt}")

# 5️⃣ Exit
elif choice == "5":
    print("\n👋 Thanks for using Expense Tracker! Bye!")
    break

else:
    print("\n❌ Invalid choice. Please try again.")
```