**Python Programming Internship – Task 2**

Project Title: Python basics and solved small coding challenges. Now, it’s time to apply Python in a real-world mini project: an Expense Tracker (Command-Line Application).

This project will teach you how to**:**

o **Take user input (**for expenses**).**

o **Save data** in a file **(**CSV format**).**

o **Read and display saved expenses.**

oPerform **basic calculations (**like total amount spent**).**

You’ll be building your first simple but practical **Python application**

**File Name: Python Programming Internship**

**CODE:**

**import csv**

**import os**

**# File to store expenses**

**FILE\_NAME = "expenses.csv"**

**# Ensure the file exists with headers**

**if not os.path.exists(FILE\_NAME):**

**with open(FILE\_NAME, mode="w", newline="") as file:**

**writer = csv.writer(file)**

**writer.writerow(["Date", "Category", "Amount", "Description"])**

**def add\_expense():**

**date = input("Enter date (YYYY-MM-DD): ")**

**category = input("Enter category (Food/Travel/Shopping/etc): ")**

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

**description = input("Enter description: ")**

**with open(FILE\_NAME, mode="a", newline="") as file:**

**writer = csv.writer(file)**

**writer.writerow([date, category, amount, description])**

**print("✅ Expense added successfully!\n")**

**def view\_expenses():**

**with open(FILE\_NAME, mode="r") as file:**

**reader = csv.reader(file)**

**for row in reader:**

**print(row)**

**print()**

**def total\_expenses():**

**total = 0**

**with open(FILE\_NAME, mode="r") as file:**

**reader = csv.DictReader(file)**

**for row in reader:**

**total += float(row["Amount"])**

**print(f"💰 Total Expenses = {total}\n")**

**def menu():**

**while True:**

**print("📌 Expense Tracker Menu")**

**print("1. Add Expense")**

**print("2. View Expenses")**

**print("3. Total Expenses")**

**print("4. Exit")**

**choice = input("Enter choice (1-4): ")**

**if choice == "1":**

**add\_expense()**

**elif choice == "2":**

**view\_expenses()**

**elif choice == "3":**

**total\_expenses()**

**elif choice == "4":**

**print("👋 Exiting... Have a great day!")**

**break**

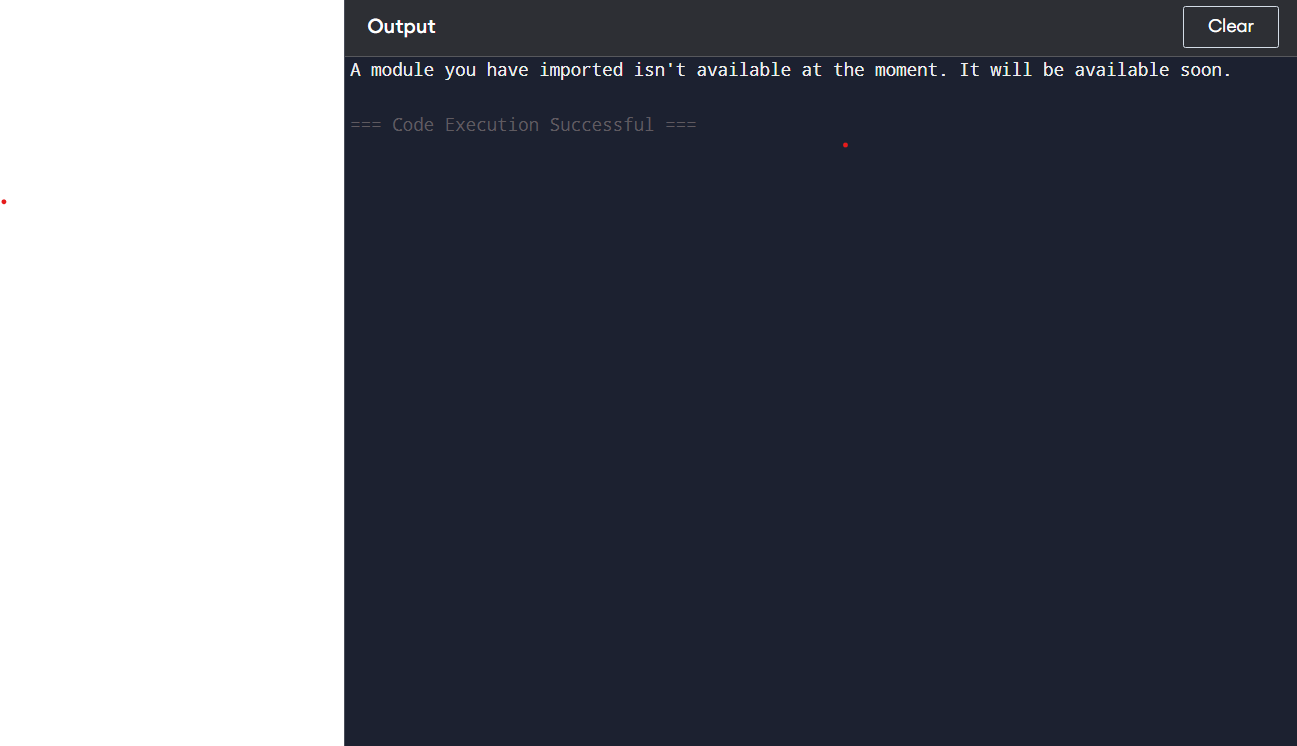
**else:**

**print("❌ Invalid choice, try again.\n")**

**if \_\_name\_\_ == "\_\_main\_\_":**

**menu()**

**OUTPUT:**

****