🚀 Python & Streamlit Assignment: Smart Travel Assistant

📌 Assignment Overview

You will build a **Smart Travel Assistant** using **Python and Streamlit**. The app will:
✅ Let users select a **travel destination**.
✅ Estimate **travel expenses** based on user input.
✅ Suggest a **packing checklist** based on the expected weather.
✅ Display a **travel summary** with all user inputs.

📌 Topics Covered

✔️ **Python Basics** (Functions, Lists, Dictionaries)
✔️ **Streamlit** (Building Web Apps)
✔️ **User Input Handling** (Text, Dropdowns, Sliders, Buttons)
✔️ **File Handling** (Saving travel details for future reference)
✔️ **Data Display & Interactivity**

📌 Task 1: User Destination Selection

- The user selects a **destination** from a list of famous cities.
- The user chooses the **expected weather condition** (Sunny, Rainy, Cold).
- The app stores the user's choice and displays it on the screen.

📌 Task 2: Travel Expense Calculator

- The user enters the **number of travel days**.
- The user enters their **daily budget** (food, transport, sightseeing, etc.).
- The app calculates the **total estimated travel cost**.
- The user can add **optional expenses** (e.g., flight cost, hotel booking).
- The total **trip cost** is displayed in the app.

📌 Task 3: Packing Checklist Generator

- Based on the selected **weather condition**, the app suggests a **packing list**.
- For **Rainy weather**, it suggests **Umbrella, Raincoat, Waterproof Shoes**.
- For **Cold weather**, it suggests **Jacket, Gloves, Warm Clothes**.
- For **Sunny weather**, it suggests **Sunglasses, Sunscreen, Hat**.
- The user can modify the packing list by adding or removing items.

📌 Task 4: Travel Summary & File Saving

- The app displays a **final travel summary**, including:
    - **Destination**
    - **Weather Condition**
    - **Total Trip Cost**
    - **Packing List**
- The user can **save their travel details** to a file for future reference.
- The app allows users to **view past travel plans**.

📌 Bonus Features (Optional)

🎯 **Add a Countdown Timer:** Show how many days are left until the trip.
🎯 **Add a Currency Converter:** Convert the budget to another currency.
🎯 **Add a Trip Rating System:** Let users rate past trips.

🚀 **This assignment will help you learn Python, Streamlit, and interactive user interfaces. Try it and have fun building your Smart Travel Assistant!** 🎯