🔍 Project Title: TCA - Telecom Customer Analysis

📌 Key Points Summary

1. 📁 **Dataset Used:**
    - The dataset contains information about telecom customers (e.g., their services, account info, churn status).
    - Main columns: `gender`, `SeniorCitizen`, `Partner`, `PhoneService`, `InternetService`, `Contract`, `PaymentMethod`, `Churn`, etc.
2. 🧹 **Data Cleaning:**
    - Checked for null values.
    - Removed or handled missing values, especially in `TotalCharges`.
3. 📊 **Data Visualization:**
    - Used `seaborn` and `matplotlib` to plot:
        - Countplots for service features like `PhoneService`, `InternetService`, etc.
        - Pie chart for churn distribution (how many customers left vs. stayed).
        - Heatmap for correlation between numeric features.
        - Boxplot to compare churn with numerical features.
4. 💡 **Insights from Plots:**
    - Customers with month-to-month contracts are more likely to churn.
    - Fiber optic users and those without tech support or online security churn more.
    - Senior citizens and customers without partners have slightly higher churn.
5. 📈 **Modeling (if any):**

- (Not included in this notebook – currently focused on EDA only.)

6. 🧠 **Tools Used:**
    - Python libraries: `pandas`, `numpy`, `matplotlib`, `seaborn`