**Git Assignment: Version Control for a Data Cleaning Script**

**Problem Statement**

You are a data engineer tasked with creating a simple Python script to clean a small dataset of customer orders. The script will be version-controlled using Git and hosted on GitHub. You will initialize a repository, make changes to the script, create a branch for a new feature, and submit a pull request (PR) to simulate a team workflow. This assignment introduces Git commands and collaboration in a data engineering context.

**Dataset**

* **File**: orders.csv (created by you or provided by the instructor).
* **Description**: A CSV file with customer order data containing:
  + order\_id (unique identifier)
  + customer\_name (string)
  + amount (float, order amount)
* **Sample Data** (create this file or copy it)

order\_id,customer\_name,amount

1,Alice,150.50

2,Bob,0.00

3,Charlie,75.25

**Objectives**

1. Initialize a Git repository and connect it to GitHub.
2. Create a Python script to clean the dataset (remove invalid rows).
3. Use branches to add a new feature and create a pull request.
4. Commit changes with clear messages and push to GitHub.

**Tasks**

1. **Repository Setup** (5 minutes):
   * Create a new GitHub repository named order-cleaning.
   * Initialize a local Git repository.
   * Add orders.csv to the repository.
2. **Initial Script** (5 minutes):
   * Create a Python script clean\_orders.py that:
     + Reads orders.csv using pandas.
     + Removes rows where amount is 0.
     + Saves the cleaned data to cleaned\_orders.csv.
   * Commit and push the script to the main branch.
3. **Feature Branch** (5 minutes):
   * Create a branch named add-stats.
   * Modify clean\_orders.py to print the total amount of cleaned orders.
   * Commit and push the branch to GitHub.
   * Create a pull request on GitHub to merge add-stats into main.
4. **Documentation** (5 minutes):
   * Update README.md with:
     + A brief description of the script.
     + Instructions to run it (e.g., python clean\_orders.py).