**Pandas Combining DataFrames Assignment with Titanic Dataset**

Task 1: Merging DataFrames

Titanic Dataset : <https://www.kaggle.com/datasets/brendan45774/test-file>

1. Load the Titanic dataset.

2. Create two DataFrames:

- `passengers` with columns: `PassengerId`, `Name`, `Sex`

- `tickets` with columns: `PassengerId`, `Ticket`, `Fare`

3. Merge these DataFrames on `PassengerId` using an inner join.

Task 2: Joining DataFrames

1. From the Titanic dataset, create two DataFrames:

- `passenger\_info` with columns: `Name`, `Sex`, indexed by `PassengerId`

- `ticket\_info` with columns: `Ticket`, `Fare`, indexed by `PassengerId`

2. Join these DataFrames on their indices using an inner join.

Task 3: Concatenating DataFrames

1. Split the Titanic dataset into two DataFrames along columns:

- `part1` with columns: `PassengerId`, `Survived`, `Pclass`

- `part2` with columns: `Name`, `Sex`, `Age`

2. Concatenate these DataFrames along columns (axis=1).

Task 4: Appending DataFrames

1. Create two DataFrames by splitting the Titanic dataset into:

- `first\_half` containing the first half of the rows

- `second\_half` containing the second half of the rows

2. Append `second\_half` to `first\_half`.

Instructions:

1. Load the Titanic dataset.

2. Create the DataFrames as specified.

3. Perform the operations to merge, join, concatenate, and append the DataFrames.

4. Print the resulting DataFrames.