

## Pandas Assignment 4

### (Groupby)

Note: Case study -> 3 (Housing Data)

Dataset:

<https://www.kaggle.com/datasets/yasserh/housing-prices-dataset>

Q1. Write a program to find the average price of houses grouped by the number of bedrooms. Display the result in descending order of average price.

Q2. Create a program to calculate the total area of houses grouped by stories. Display only the top 2 with the largest total area.

Q3. Determine the maximum price of houses based on whether they have hotwaterheating or not. Also display the data of both rows.

Q4. Add a column named PricePerSqFt to calculate the price per square foot for each house. Group the dataset by the number of floors and find the average PricePerSqFt for each group.

Q5. Group the data by parking and count the total number of houses in each number of parking. Also sort in ascending order.

Q6. Write a program to group houses based on the number of bathrooms and find the minimum, maximum, and average area (square feet) for each bathroom group.

Q7. Perform all the attributes and methods of pandas groupby object on this dataset which are discussed in class and analyse the data.

Q8. Write a python program which display the name and data of the individual groups and performing groupby on furnishingstatus column of the dataset.

