LAB Logbook

Lab 1

**Write one sentence each for any of the five Pandas classes you find interesting.**

1. **DataFrame**: A two-dimensional, size-mutable, and potentially heterogeneous tabular data structure with labeled axes (rows and columns), ideal for storing and manipulating structured data.
2. **Series**: A one-dimensional labeled array capable of holding any data type, used for indexing and storing a single column of a DataFrame or any individual data series.
3. **Index**: An immutable sequence used to label and align data in a DataFrame or Series, providing fast access and lookup for rows and columns.
4. **DatetimeIndex**: A subclass of Index used for handling datetime-related data, allowing for powerful time series analysis and time-based indexing.
5. **Categorical**: A type that represents categorical data, allowing for more memory-efficient storage and faster operations by working with a fixed set of categories.

Lab 2

**Include an image of the generated scatter plot between house size and cost. Copy the figure and paste it into your logbook:**

A graph with blue dots

AI-generated content may be incorrect.

Record the guess you made for the cost of a slightly larger house with a size of SID\*0.75. Don't worry if your guess is incorrect.

**-> (6319.5, 4.0)**

Lab 3

Lab 4

Lab 5

Lab 6

Lab 7

Lab 8

Lab 9

Lab 10

Lab 11

Lab 12