

LAB Logbook

Lab 1

- **Series:** A Pandas Series is a one-dimensional array-like object that can hold any data type and has an associated index for easy labelling and access.
- **DataFrame:** A DataFrame is a two-dimensional, tabular data structure with rows and columns, making it ideal for storing and manipulating datasets.
- **Index:** An Index in Pandas is an immutable array used for labelling and aligning data in Series or DataFrames, enabling efficient data retrieval and manipulation.
- **Categorical:** The Categorical type in Pandas allows for efficient storage and manipulation of data with a fixed number of possible values, making it ideal for handling categorical data.
- **DatetimeIndex:** A DatetimeIndex is a specialised index in Pandas for handling time series data, allowing for fast date-based indexing and resampling operations.

Lab 2

Lab 3

Lab 4

Lab 5

Lab 6

Lab 7

Lab 8

Lab 9

Lab 10

Lab 11

Lab 12