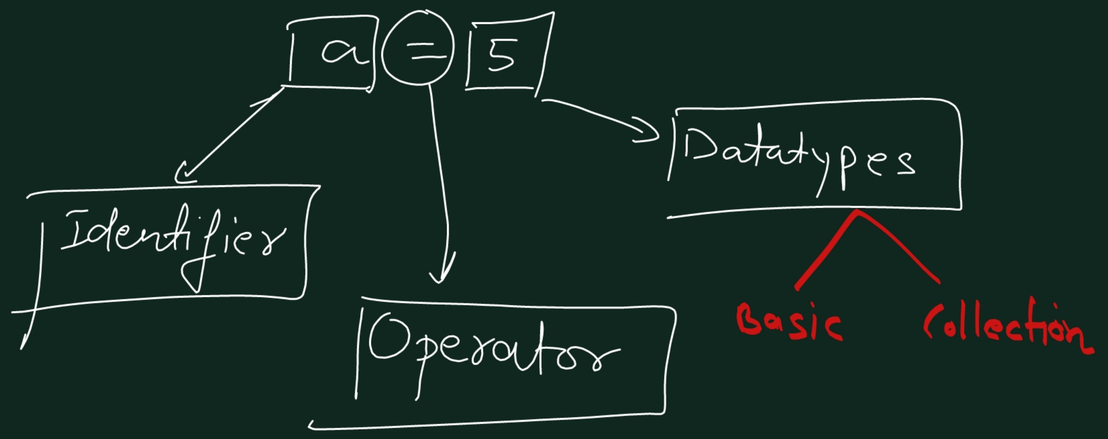
Python Programming



comprehension

[operation for i in collection]

Functions

a) lambda
b) User defined
c) map()
d) apply()

EDA using Python

1. Numpy
2. Pandas
3. Matplotlib
4. Seaborn

Section : 1 -> read & understand.

a) pd.read_csv()

b) info(), describe(), head(), tail(), dtypes, columns

Section : 2 - Data Preprocessing

a) Fix rows, column + drop(), rename(), astype(), to_datetime()
+ df['New'] = logic using given column

b) Fix duplicates + duplicated()
drop_duplicates()

© Fix missing values + isnull(), fillna(), dropna()

+ imputation Vs Interpolation

(d) Fix Outliers + filter/condition, replace()

Section 3:- Visualization

(a) Matplotlib

plt.figure()
plt.chart()
plt.title()
plt.xlabel()
plt.ylabel()
plt.legend()
plt.show()

Section 4:- Analysis

a) df['column'] -> univariate()

describe(), Agg(), value_count()

b) Bivariate: groupby(), crosstab()

sort_values(), set_index()

Section 5 :- Additional

a) Create dataframe

b) Retrieval [indexing or slicing

c) loc[ ] vs iloc[ ]

d) shape, size, ndim

(Column → Field → Dimension → Feature)

Feature Engineering

↳ Columns transformation/addition