What is Pandas?

Pandas is used for data manipulation and analysis.

It allows you to:

- Work with **tables** (just like Excel or Google Sheets!)
- Clean and filter data easily
- Read from CSV, Excel, JSON, etc.

Installing Pandas

pip install pandas

🛠 Basic Pandas Example

```
import pandas as pd
# Create a DataFrame (table-like structure)
data = {
    'Name': ['Alice', 'Bob', 'Charlie'],
    'Age': [24, 30, 22],
    'Score': [85, 90, 95]
}
df = pd.DataFrame(data)
print(df)
# Access column
print("Names:", df['Name
# Filter rows
print("Scores above 90:")
print(df[df['Score'
```

Reading CSV Files with Pandas

```
df = pd.read_csv('students.csv')
print(df.head()) # Show first 5 rows
```

Practice Task (Pandas)

- 1. Create a DataFrame with 3 students: name, age, and grade.
- 2. Add a column called "Passed" where grade > 50 = True.
- 3. Filter and display only students who passed.