Pandas — Series, DataFrame

① pd.Series( )
→ Collection

```
Ser1 = pd.Series([10,20,30])
```

```
0   10
1   20
2   30
```

eg: date_series

```
ser2 = pd.date_range('01-01-2025', '12-01-2025')
```

Dataframe :-

```
df = pd.DataFrame( )
```
→ dict of collection

- list
- tuple
- set
- dict
- array
- series

```
di = {'Name': ['SRK', 'Salman', 'Prabhas'],
      'Age' : [20, 22, 23],
      'Role' : ['Actor', 'DS', 'AI']}
```

```
df = pd.DataFrame(di)
```

o/p

Name	Age	Role
SRK	20	Actor
Salman	22	DS
Prabhas	23	AI

Reading a file as dataframe.

① File & Notebook : @same location

```
df = pd.read_csv('filename.csv')
df = pd.read_excel('filename.xlsx')
```

② Different location

```
df = pd.read_csv("Path\\filename.csv")
```

③ upload file → same location

Custom indexing for a dataframe.

```
df = pd.DataFrame(data, index = collection)
```

no. of rows = no. of values

Create a dataframe where columns are: age and score, index is name of person.