

Pandas Dataset Tutorial

1. Import pandas

```
import pandas as pd
```

2. Read Dataset

```
# Read CSV file
```

```
df = pd.read_csv("data.csv")
```

```
print(df)
```

```
# Read Excel file
```

```
df = pd.read_excel("data.xlsx")
```

3. Create Dataset Manually

```
data = {
```

```
    "Name": ["Alice", "Bob", "Charlie"],
```

```
    "Age": [25, 30, 35],
```

```
    "City": ["Delhi", "Mumbai", "Chennai"]
```

```
}
```

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

```
print(df)
```

Output:

```
Name Age City
```

```
0 Alice 25 Delhi
```

```
1 Bob 30 Mumbai
```

```
2 Charlie 35 Chennai
```

4. Get a Single Column

```
print(df["Name"])
```

```
print(df.Name)
```

Output:

```
0 Alice
```

```
1 Bob
```

```
2 Charlie
```

```
Name: Name, dtype: object
```

Summary:

- `pd.read_csv()` → Read dataset from CSV

- `pd.read_excel()` → Read dataset from Excel

- `pd.DataFrame()` → Create dataset manually
- `df["column"]` → Get single column