# Pandas Operations

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# Introduction

Pandas is a library of python which used for Working on various Datasets.

It has functions for analyzing , cleaning and exploring Data

# Pandas operations

Pandas provides several methods for loading data from different sources. Here are some common ways to load data using pandas:

CSV Files:

```
import pandas as pd


# Load a CSV file with custom delimiter

df = pd.read_csv('data.csv', delimiter=';')


# Load a CSV file with specific columns

df = pd.read_csv('data.csv', usecols=['col1', 'col2'])
```

# CSV File

Name, Age, Gender, Salary

Alice,25,Female,50000

Bob,30,Male,60000

Charlie,35,Male,70000

David,40,Male,80000Eve,45,Female,90000

- df.describe()

- It will give us the summary of that perticular dataset.

```
]: df.describe()
```

]:

| | P00001 | Lenovo Laptop | Raka Ele. | Kaustubh Mahajan | Male |
|---|---|---|---|---|---|
| count | 19 | 19 | 19 | 19 | 19 |
| unique | 19 | 5 | 5 | 6 | 2 |
| top | P00002 | Samsung M31 | Gada Ele. | Siddhi Kiwale | Male |
| freq | 1 | 5 | 5 | 5 | 13 |

# We can also convert the dictionary into a dataframe

```
[2]: import pandas as pd
```

```
[6]: data={'SIC':[16,17,19,20,15],'EDS':[20,16,17,18,19],'SON':[20,6,8,9,10],'AM':[4,8,9,10,19],'EGR':[6,10,11,13,
     df=pd.DataFrame(data)
     df
```

[6]:

| | SIC | EDS | SON | AM | EGR |
|---|---|---|---|---|---|
| **0** | 16 | 20 | 20 | 4 | 6 |
| **1** | 17 | 16 | 6 | 8 | 10 |
| **2** | 19 | 17 | 8 | 9 | 11 |
| **3** | 20 | 18 | 9 | 10 | 13 |
| **4** | 15 | 19 | 10 | 19 | 4 |

# Indexing to dataframe

```
In [25]: data={'SIC':[16,17,19,20,15],'EDS':[20,16,17,18,19],'SON':[20,6,8,9,10],'AM':[4,8,9,10,19],'EGR':[6
         df=pd.DataFrame(data,index=["Ram","Sita","Gita","Radha","Krishna"])
         df
```

Out[25]:

| | SIC | EDS | SON | AM | EGR |
|---|---|---|---|---|---|
| Ram | 16 | 20 | 20 | 4 | 6 |
| Sita | 17 | 16 | 6 | 8 | 10 |
| Gita | 19 | 17 | 8 | 9 | 11 |
| Radha | 20 | 18 | 9 | 10 | 13 |
| Krishna | 15 | 19 | 10 | 19 | 4 |

# THANK YOU!