

# untitled1-1

August 29, 2023

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

```
[6]: data = {  
    'Name' : ['Alice', 'Bob', 'Charlie', 'David', 'Harish', 'Jayanth',  
    ↪ 'Kevin', 'Mukul', 'Sashi', 'Prasad'],  
    'Age' : [19,18,20,21,22,23,19,20,20,19],  
    'Number' : [1,2,3,4,5,6,7,8,9,10],  
    'Marks' : [15,14,16,12,18,20,17,19,19,19],  
    'City' : ['New York', 'New Jersey', 'Sydney', 'Dubai',  
    ↪ 'Washington', 'Vietnam', 'Singapore', 'England', 'Denmark', 'Scotland']  
}
```

```
[7]: df = pd.DataFrame(data)
```

```
[8]: print(df)
```

	Name	Age	Number	Marks	City
0	Alice	19	1	15	New York
1	Bob	18	2	14	New Jersey
2	Charlie	20	3	16	Sydney
3	David	21	4	12	Dubai
4	Harish	22	5	18	Washington
5	Jayanth	23	6	20	Vietnam
6	Kevin	19	7	17	Singapore
7	Mukul	20	8	19	England
8	Sashi	20	9	19	Denmark
9	Prasad	19	10	19	Scotland

```
[9]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 10 entries, 0 to 9  
Data columns (total 5 columns):  
#   Column  Non-Null Count  Dtype  
---  ---  
0   Name    10 non-null      object  
1   Age     10 non-null      int64  
2   Number  10 non-null      int64
```

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3   Marks    10 non-null    int64
4   City     10 non-null    object
dtypes: int64(3), object(2)
memory usage: 528.0+ bytes

```

```
[10]: print(df.describe())
```

```

      count      Age      Number      Marks
count  10.000000   10.00000   10.000000  10.000000
mean    20.100000    5.50000    16.900000  16.900000
std      1.523884    3.02765    2.601282   2.601282
min     18.000000    1.00000   12.000000  12.000000
25%     19.000000    3.25000   15.250000  15.250000
50%     20.000000    5.50000   17.500000  17.500000
75%     20.750000    7.75000   19.000000  19.000000
max     23.000000   10.00000   20.000000  20.000000

```

```
[11]: observation = df.loc[3]
```

```
[12]: print(observation)
```

```

Name      David
Age        21
Number      4
Marks      12
City      Dubai
Name: 3, dtype: object

```

```
[13]: null_values = df.isnull()
```

```
[14]: print(null_values)
```

```

      Name      Age      Number      Marks      City
0  False  False   False   False   False
1  False  False   False   False   False
2  False  False   False   False   False
3  False  False   False   False   False
4  False  False   False   False   False
5  False  False   False   False   False
6  False  False   False   False   False
7  False  False   False   False   False
8  False  False   False   False   False
9  False  False   False   False   False

```