

```
import numpy as np
import pandas as pd
```

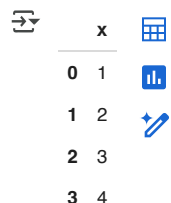
Measures of Central Tendency

Mean, Median, Mode Mean and Median applied on continuous data Mode is applied on the discrete data

Mean Sum of All data values /Total number of data values

Population mean and sample mean

```
df = pd.DataFrame({"x": [1,2,3,4,5]})
df
```



	x
0	1
1	2
2	3
3	4

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```
df["x"].mean()
```

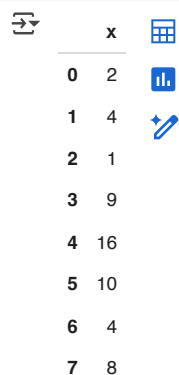
```
np.float64(3.0)
```

```
df["x"].sum()/len(df)
```

```
np.float64(3.0)
```

Median, refers to the data value that is positioned in the middle of an ordered dataset.

```
df = pd.DataFrame({"x": [2,4,1,9,16,10,4,8,7]})
df
```



	x
0	2
1	4
2	1
3	9
4	16
5	10
6	4
7	8

Next steps:

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```
df["x"].median()
```

```
7.0
```

```
df["x"].sort_values()
```

```

↵
  x
2  1
0  2
1  4
6  4
8  7
7  8
3  9
5 10
4 16

```

```
# Mode – Most repeated value/Most frequent value
```

```
# Unimodel Data, Bimodel Data, Multimodel data
```

```
df = pd.DataFrame({"x": [1,1,2,3,4,5], "y": [1,1,2,3,4,4], "i": [1,2,3,4,5,6]})
df
```

```

↵
  x  y  i
0  1  1  1
1  1  1  2
2  2  2  3
3  3  3  4
4  4  4  5

```

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```
df["x"].mode()
```

```

↵
  x
0  1

```

```
df["y"].mode()
```


```

↵
  y
0  1
1  4

dtype: int64

```

```
df["i"].mode()
```

 **i****0** 1**1** 2**2** 3**3** 4**4** 5**5** 6**dtype:** int64Start coding or [generate](#) with AI.Start coding or [generate](#) with AI.Start coding or [generate](#) with AI.Start coding or [generate](#) with AI.Start coding or [generate](#) with AI.Start coding or [generate](#) with AI.Start coding or [generate](#) with AI.Start coding or [generate](#) with AI.Start coding or [generate](#) with AI.