

## Assignment 1

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[1] import pandas as pd  
import numpy as np

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[2] data = np.random.randn(4, 4)  
columns = ['Feature 1', 'Feature 2', 'Feature 3', 'Feature 4']  
df = pd.DataFrame(data, columns=columns)  
print(df)

	Feature 1	Feature 2	Feature 3	Feature 4
0	1.648543	-0.089270	0.280620	-0.354166
1	-1.459019	1.374387	2.167883	1.416434
2	0.084490	-0.171361	-0.112364	0.204444
3	0.073217	-0.202669	0.694853	0.489148

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[3] columns = ['Random Value ' + str(i+1) for i in range(4)]  
df = pd.DataFrame(data, columns=columns)  
print(df)

	Random Value 1	Random Value 2	Random Value 3	Random Value 4
0	1.648543	-0.089270	0.280620	-0.354166
1	-1.459019	1.374387	2.167883	1.416434
2	0.084490	-0.171361	-0.112364	0.204444
3	0.073217	-0.202669	0.694853	0.489148

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df.describe()

	Random Value 1	Random Value 2	Random Value 3	Random Value 4
count	4.000000	4.000000	4.000000	4.000000

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df.describe()

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	Random Value 1	Random Value 2	Random Value 3	Random Value 4
count	4.000000	4.000000	4.000000	4.000000
mean	0.086808	0.227771	0.757748	0.438965
std	1.268698	0.765904	0.996190	0.739824
min	-1.459019	-0.202669	-0.112364	-0.354166
25%	-0.309842	-0.179188	0.182374	0.064792
50%	0.078853	-0.130316	0.487737	0.346796
75%	0.475503	0.276644	1.063111	0.720970
max	1.648543	1.374387	2.167883	1.416434

[5] df.isna()

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	Random Value 1	Random Value 2	Random Value 3	Random Value 4
0	False	False	False	False
1	False	False	False	False
2	False	False	False	False
3	False	False	False	False

[6] df.dtypes

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0s	✓ [5]	2	False	False	False	False
		3	False	False	False	False

✓ 0s df.dtypes

```
Random Value 1    float64
Random Value 2    float64
Random Value 3    float64
Random Value 4    float64
dtype: object
```

```
[7] df.loc[:, 'Random Value 2': 'Random Value 3']
```

	Random Value 2	Random Value 3
0	-0.089270	0.280620
1	1.374387	2.167883
2	-0.171361	-0.112364
3	-0.202669	0.694853

✓ 0s  `df.iloc[:,1:3]`

	Random Value 2	Random Value 3
0	-0.089270	0.280620
1	1.374387	2.167883

