

```
import pandas as pd
import numpy as np

data = np.random.rand(4,4)
df = pd.DataFrame(data, columns=['Feature1', 'Feature2', 'Feature3', 'Feature4'])
```

```
print(df)
```

	Feature1	Feature2	Feature3	Feature4
0	0.485682	0.610364	0.128924	0.629214
1	0.188534	0.616461	0.921242	0.789874
2	0.429945	0.726181	0.113968	0.030883
3	0.080907	0.651430	0.384771	0.576331

```
df = df.rename(columns={'Feature1': 'Random value 1',
                        'Feature2': 'Random value 2',
                        'Feature3': 'Random value 3',
                        'Feature4': 'Random value 4'})
```

```
print(df)
```

	Random value 1	Random value 2	Random value 3	Random value 4
0	0.485682	0.610364	0.128924	0.629214
1	0.188534	0.616461	0.921242	0.789874
2	0.429945	0.726181	0.113968	0.030883
3	0.080907	0.651430	0.384771	0.576331

```
statistics = df.describe()
print(statistics)
```

	Random value 1	Random value 2	Random value 3	Random value 4
count	4.000000	4.000000	4.000000	4.000000
mean	0.296267	0.651109	0.387226	0.506575
std	0.192989	0.053218	0.377081	0.329872
min	0.080907	0.610364	0.113968	0.030883
25%	0.161627	0.614937	0.125185	0.439969
50%	0.309239	0.633945	0.256847	0.602772
75%	0.443879	0.670117	0.518889	0.669379
max	0.485682	0.726181	0.921242	0.789874

```
null_values = df.isnull().sum()
data_types = df.dtypes
```

```
print("Null Values:")
print(null_values)
```

```
print("\nData Types:")
print(data_types)
```

```
Null Values:
Random value 1    0
Random value 2    0
Random value 3    0
Random value 4    0
dtype: int64
```

```
Data Types:
Random value 1    float64
Random value 2    float64
Random value 3    float64
Random value 4    float64
dtype: object
```

```
random_value_2_3_loc = df.loc[:, ['Random value 2', 'Random value 3']]
print(random_value_2_3_loc)
```

```
random_value_2_3_iloc = df.iloc[:, [1, 2]]
print(random_value_2_3_iloc)
```

```
Random value 2 Random value 3
0      0.610364      0.128924
1      0.616461      0.921242
2      0.726181      0.113968
3      0.651430      0.384771
Random value 2 Random value 3
0      0.610364      0.128924
1      0.616461      0.921242
2      0.726181      0.113968
3      0.651430      0.384771
```

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