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

```python
#Task - 01
num_observations = 4
num_features = 4

random_values = np.random.rand(num_observations, num_features)
df = pd.DataFrame(random_values)
```

```python
df.head()
```

Out[ ]:

	0	1	2	3
0	0.757029	0.323729	0.046493	0.793787
1	0.144639	0.624590	0.734539	0.095155
2	0.157595	0.842829	0.456237	0.909123
3	0.364209	0.799444	0.187103	0.959299

```python
#Task - 02
df.columns = ['Random value 1', 'Random value 2', 'Random value 3', 'Random valu
```

```python
df.head()
```

Out[ ]:

	Random value 1	Random value 2	Random value 3	Random value 4
0	0.757029	0.323729	0.046493	0.793787
1	0.144639	0.624590	0.734539	0.095155
2	0.157595	0.842829	0.456237	0.909123
3	0.364209	0.799444	0.187103	0.959299

```python
#Task - 03
df.describe()
```

Out[ ]:

	Random value 1	Random value 2	Random value 3	Random value 4
count	4.000000	4.000000	4.000000	4.000000
mean	0.355868	0.647648	0.356093	0.689341
std	0.285733	0.235650	0.304226	0.402139
min	0.144639	0.323729	0.046493	0.095155
25%	0.154356	0.549375	0.151951	0.619129
50%	0.260902	0.712017	0.321670	0.851455
75%	0.462414	0.810290	0.525812	0.921667
max	0.757029	0.842829	0.734539	0.959299

In [ ]:
```python
#Task - 04
df.isnull()
```

Out[ ]:

	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

In [ ]:
```python
#Task - 04
df.isnull().sum()
```

Out[ ]:
```
Random value 1    0
Random value 2    0
Random value 3    0
Random value 4    0
dtype: int64
```

In [ ]:
```python
#Task - 04
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4 entries, 0 to 3
Data columns (total 4 columns):
 #   Column          Non-Null Count  Dtype
---  ------          --------------  -----
 0   Random value 1  4 non-null      float64
 1   Random value 2  4 non-null      float64
 2   Random value 3  4 non-null      float64
 3   Random value 4  4 non-null      float64
dtypes: float64(4)
memory usage: 256.0 bytes
```

In [ ]:
```python
#Task - 04
df.dtypes
```

```
Out[ ]: Random value 1    float64
        Random value 2    float64
        Random value 3    float64
        Random value 4    float64
        dtype: object
```

In [ ]: `df`

Out[ ]:

	Random value 1	Random value 2	Random value 3	Random value 4
0	0.757029	0.323729	0.046493	0.793787
1	0.144639	0.624590	0.734539	0.095155
2	0.157595	0.842829	0.456237	0.909123
3	0.364209	0.799444	0.187103	0.959299

In [ ]:
```python
#Task - 05
df.loc[:, ['Random value 2', 'Random value 3']]
```

Out[ ]:

	Random value 2	Random value 3
0	0.323729	0.046493
1	0.624590	0.734539
2	0.842829	0.456237
3	0.799444	0.187103

In [ ]:
```python
#Task - 05
df.iloc[:,1:3]
```

Out[ ]:

	Random value 2	Random value 3
0	0.323729	0.046493
1	0.624590	0.734539
2	0.842829	0.456237
3	0.799444	0.187103

--------------------THE END---

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