

# Task-1

```
In [2]: import pandas as pd
import numpy as np
d1=pd.Series(np.random.rand(4))
d2=pd.Series(np.random.rand(4))
d3=pd.Series(np.random.rand(4))
d4=pd.Series(np.random.rand(4))
```

```
In [3]: df = pd.DataFrame([d1,d2,d3,d4])
df
```

```
Out[3]:
```

	0	1	2	3
0	0.951232	0.510199	0.466709	0.525826
1	0.553550	0.378724	0.003306	0.285775
2	0.643907	0.732335	0.453974	0.512890
3	0.758305	0.118171	0.352106	0.083175

## Task 2

```
In [6]: df.rename(columns={0:'Random Value 1',1:'Random Value 2',2:'Random Value 3',3:'Random Value 4'},inplace=True)
df
```

```
Out[6]:
```

	Random Value 1	Random Value 2	Random Value 3	Random Value 4
0	0.951232	0.510199	0.466709	0.525826
1	0.553550	0.378724	0.003306	0.285775
2	0.643907	0.732335	0.453974	0.512890
3	0.758305	0.118171	0.352106	0.083175

## Task 3

```
In [7]: df.describe()
```

```
Out[7]:
```

	Random Value 1	Random Value 2	Random Value 3	Random Value 4
count	4.000000	4.000000	4.000000	4.000000
mean	0.726748	0.434857	0.319024	0.351916
std	0.171512	0.256652	0.216637	0.210359
min	0.553550	0.118171	0.003306	0.083175
25%	0.621317	0.313586	0.264906	0.235125
50%	0.701106	0.444462	0.403040	0.399332
75%	0.806537	0.565733	0.457158	0.516124
max	0.951232	0.732335	0.466709	0.525826

## Task 4

```
In [10]: df.isnull().all()
```

```
Out[10]: Random Value 1    False
Random Value 2    False
Random Value 3    False
Random Value 4    False
dtype: bool
```

```
In [11]: df['Random Value 1'].dtype
```

```
Out[11]: dtype('float64')
```

```
In [12]: df['Random Value 2'].dtype
```

```
Out[12]: dtype('float64')
```

```
In [13]: df['Random Value 3'].dtype
```

```
Out[13]: dtype('float64')
```

```
In [16]: df['Random Value 4'].dtype
```

```
Out[16]: dtype('float64')
```

## Task 5

```
In [18]: df.loc[0:,'Random Value 2']
```

```
Out[18]: 0    0.510199  
1    0.378724  
2    0.732335  
3    0.118171  
Name: Random Value 2, dtype: float64
```

```
In [19]: df.iloc[0:,2]
```

```
Out[19]: 0    0.466709  
1    0.003306  
2    0.453974  
3    0.352106  
Name: Random Value 3, dtype: float64
```

```
In [ ]:
```

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