

## Experiment - 16

Aim: Create Pandas Series from various inputs.

Program:

```
import pandas as pd
import numpy as np

#Different Methods of Creation of Series
# Method 1: Using a list
a = pd.Series(['Mark', 'Rita', 'Vicki', 100 , 'Rohan'])
print(a)

# Method 2: Using a Dictionary
b = pd.Series({ 'a': 'Mark', 'b': 'Rita', 'c': 'Vicki'})
print(b)

# Method 3: Using a NumPy array
c = pd.Series(np.array([100, 200, 300, 400]))
print(c)

# Method 4: Using Random Function

d = pd.Series(np.random.randn(5))
print(d)

# Method 5: Using a Scalar value
e = pd.Series(5, index=["a", "b", "c", "d", "e"])
print(e)
```

Output:

```
0    Mark
1    Rita
2    Vicki
3     100
4    Rohan
dtype: object
```

```
a    Mark
b    Rita
c    Vicki
dtype: object
```

```
0    100
1    200
2    300
3    400
dtype: int64
```

```
0    -0.794317
1    -0.961133
2    -2.105841
3    -1.573285
4    -2.134090
dtype: float64
```

```
a    5
b    5
c    5
d    5
e    5
dtype: int64
```