

## ✓ Mohammad Shayaan Shaikh (54)

### Exp.NO.11

#### ✓ Program to Demonstrate Data Series using Pandas

```
import pandas as pd
```

#### ✓ Creating a Series from a list

```
data_list = [10, 20, 30, 40, 50]
series1 = pd.Series(data_list)
print("Series from list:\n", series1)
```

```
Series from list:
0    10
1    20
2    30
3    40
4    50
dtype: int64
```

#### ✓ Creating a Series with custom indices

```
custom_index = ['a', 'b', 'c', 'd', 'e']
series2 = pd.Series(data_list, index=custom_index)
print("Series with custom index:\n", series2)
```

```
Series with custom index:
a    10
b    20
c    30
d    40
e    50
dtype: int64
```

#### ✓ Accessing elements

```
print("Accessing element at index 'c':", series2['c'])
```

```
Accessing element at index 'c': 30
```

#### ✓ Performing operations on Series

```
print("Adding 5 to each element:\n", series2 + 5)
```

```
Adding 5 to each element:
a    15
b    25
c    35
d    45
e    55
dtype: int64
```

#### ✓ Creating Series from a dictionary

```
data_dict = {'Math': 80, 'Physics': 90, 'Chemistry': 85}
series3 = pd.Series(data_dict)
print("Series from dictionary:\n", series3)
```

```
Series from dictionary:
Math      80
Physics   90
Chemistry 85
dtype: int64
```

#### ✓ Checking basic statistics

```
print("Maximum marks:", series3.max())  
print("Subjects scored above 85: \n", series3[series3 > 85])
```

```
→ Maximum marks: 90  
Subjects scored above 85:  
Physics      90  
dtype: int64
```