DEVENDRA GURAV AI&DS 21

Experiment - 11

Data Series using Pandas

```
import pandas as pd
```

Create a Series from list

Create 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
```

Create 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
```

Check 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
```