## Experiment11

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[5]: # Step 4: Accessing Elements (by index)

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[1]: import pandas as pd
[2]: # Step 1: Creating a Data Series using a list
     data_list = [10, 20, 30, 40, 50]
     series_from_list = pd.Series(data_list)
[3]: # Step 2: Creating a Data Series using a dictionary
     data_dict = {'A': 10, 'B': 20, 'C': 30, 'D': 40, 'E': 50}
     series_from_dict = pd.Series(data_dict)
[4]: # Step 3: Display the Series
     print("Series from List:")
     print(series_from_list)
     print("\nSeries from Dictionary:")
     print(series_from_dict)
    Series from List:
    0
         10
    1
         20
    2
         30
    3
         40
         50
    dtype: int64
    Series from Dictionary:
         10
    Α
    В
         20
    С
         30
    D
         40
         50
    dtype: int64
```

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print("\nAccessing the element at index 2 in series_from_list:", __
      ⇔series_from_list[2])
    Accessing the element at index 2 in series_from_list: 30
[6]: # Step 5: Operations on the Series (e.g., adding a constant)
     series_added = series_from_list + 10
     print("\nAdding 10 to each element in series_from_list:")
     print(series_added)
    Adding 10 to each element in series_from_list:
    1
         30
    2
         40
    3
         50
    4
         60
    dtype: int64
[7]: # Step 6: Applying a function (e.g., doubling the values)
     doubled_series = series_from_list.apply(lambda x: x * 2)
     print("\nDoubling the values of series_from_list:")
     print(doubled_series)
    Doubling the values of series_from_list:
    0
          20
    1
          40
    2
          60
    3
          80
         100
    dtype: int64
[8]: # Step 7: Checking for NaN values (example with missing data)
     series_with_nan = pd.Series([1, 2, None, 4, 5])
     print("\nSeries with NaN value:")
     print(series_with_nan)
     print("\nChecking for NaN values:")
     print(series_with_nan.isna())
    Series with NaN value:
    0
         1.0
         2.0
    1
    2
         NaN
         4.0
    3
         5.0
```

## dtype: float64

Checking for NaN values:

0 False
1 False
2 True
3 False
4 False
dtype: bool