

365 DataScience Position-based and label-based indexing

Step 1 Libraries import

```
# use the well-known convention  
import pandas as pd
```

Step 2 Create a Series object

```
series_1 = pd.Series([1, 5, 10, 15])  
series_1
```

```
0      1  
1      5  
2     10  
3     15  
dtype: int64
```

Step 3 Create a dictionary

```
series_1_dict = {'Product A': 22, 'Product B' : 166, 'Product C':156}  
series_1_dict
```

```
{'Product A': 22, 'Product B': 166, 'Product C': 156}
```

Step 4 Create a Series using the dictionary

```
# Translate the keys of the dictionary into index values  
series_2 = pd.Series(series_1_dict)  
series_2
```

```
Product A      22  
Product B     166  
Product C     156  
dtype: int64
```

Step 5 Apply the index attribute to verify if the indexing is position-based or label-based

```
# Position-based implicit indexing  
series_1.index
```

```
RangeIndex(start=0, stop=4, step=1)
```

```
# Label-based explicit indexing  
series_2.index
```

```
Index(['Product A', 'Product B', 'Product C'], dtype='object')
```

Start your 365 Journey!

