Access the elements of a Series in Pandas

Pandas Series is a one-dimensional labeled array capable of holding data of any type (integer, string, float, python objects, etc.). Labels need not be unique but must be a hashable type.

Let's discuss different ways to access the elements of given Pandas Series.

First create a Pandas Series.

```
# importing pandas module
import pandas as pd

# making data frame
df = pd.read_csv("https://media.geeksforgeeks.org/wp-content/uploads/nba

ser = pd.Series(df['Name'])
ser.head(10)
# or simply df['Name'].head(10)
```

Output:

```
0    Avery Bradley
1      Jae Crowder
2     John Holland
3      R.J. Hunter
4    Jonas Jerebko
5     Amir Johnson
6    Jordan Mickey
7     Kelly Olynyk
8     Terry Rozier
9     Marcus Smart
Name: Name, dtype: object
```

Example #1: Get the first element of series

```
# importing pandas module
import pandas as pd

# making data frame
df = pd.read_csv("https://media.geeksforgeeks.org/wp-content/uploads/nba

df['Name'].head(10)

# get the first element
ser[0]
```

Output:

```
'Avery Bradley'
```

Example #2: Access multiple elements by providing position of item

```
# importing pandas module
import pandas as pd

# making data frame
df = pd.read_csv("https://media.geeksforgeeks.org/wp-content/uploads/nba

df['Name'].head(10)

# get multiple elements at given index
ser[[0, 3, 6, 9]]
```

Output:

```
0    Avery Bradley
3      R.J. Hunter
6    Jordan Mickey
9     Marcus Smart
Name: Name, dtype: object
```

Example #3: Access first 5 elements in Series

```
# importing pandas module
import pandas as pd

# making data frame
df = pd.read_csv("https://media.geeksforgeeks.org/wp-content/uploads/nba

df['Name'].head(10)

# get first five names
ser[:5]
```

Output:

```
0    Avery Bradley
1      Jae Crowder
2     John Holland
3      R.J. Hunter
4    Jonas Jerebko
Name: Name, dtype: object
```

Example #4: Get last 10 elements in Series

```
# importing pandas module
import pandas as pd

# making data frame
df = pd.read_csv("https://media.geeksforgeeks.org/wp-content/uploads/nba

df['Name'].head(10)

# get last 10 names
ser[-10:]
```

Output:

```
448    Gordon Hayward
449       Rodney Hood
450        Joe Ingles
451     Chris Johnson
452        Trey Lyles
453      Shelvin Mack
454         Raul Neto
455      Tibor Pleiss
456       Jeff Withey
457               NaN
Name: Name, dtype: object
```

Example #5: Access multiple elements by providing label of index

```
# importing pandas module
import pandas as pd
import numpy as np

ser = pd.Series(np.arange(3, 15), index = list("abcdefghijkl"))

ser[['a', 'd', 'g', 'l']]
```

Output:

```
a     3
d     6
g     9
l    14
dtype: int32
```