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4. PANDAS – SERIES - ATTRIBUTES

1. Series Attributes

- ✓ Series is a predefined class.
- ✓ Series having different attributes.
- ✓ These attributes return information about the object.

1.1. values

- ✓ values is predefined attribute in Series class.
- ✓ We can access values attribute by using series object.
- ✓ This attribute returns the group of values as an array.

Program Name Accessing values attribute.
demo1.py

```
import pandas as pd

marks = [56, 45, 35, 41, 44, 60]
s = pd.Series(marks)

print(s)
print(s.values)
```

Output

```
0    56
1    45
2    35
3    41
4    44
5    60
dtype: int64
[56 45 35 41 44 60]
```

Program Name Accessing values attribute.
demo2.py

```
import pandas as pd

names = ["Bharath", "Daniel", "Nireekshan"]
s = pd.Series(names)

print(s)
print(s.values)
```

Output

```
0      Bharath
1      Daniel
2  Nireekshan
dtype: object
['Bharath' 'Daniel' 'Nireekshan']
```

1.2. index

- ✓ index is predefined attribute in Series class.
- ✓ We can access index attribute by using series object.
- ✓ This attribute returns the index range like, RangeIndex(start=0, stop=6, step=1)

Program Accessing index attribute.
Name demo3.py

```
import pandas as pd

marks = [56, 45, 35, 41, 44, 60]
s = pd.Series(marks)

print(s)
print(s.index)
```

Output

```
0    56
1    45
2    35
3    41
4    44
5    60
dtype: int64
RangeIndex(start=0, stop=6, step=1)
```

Program Accessing index attribute.
Name demo4.py

```
import pandas as pd

marks = [56, 45, 35, 41, 44, 60]
i = [11, 12, 13, 14, 15, 16]
s = pd.Series(marks, index = i)

print(s)
print(s.index)
```

Output

```
11    56
12    45
13    35
14    41
15    44
16    60
dtype: int64
Int64Index([11, 12, 13, 14, 15, 16], dtype='int64')
```

Program Accessing index attribute.
Name demo5.py

```
import pandas as pd

marks = [56, 45, 35, 41, 44, 60]
i = ['a', 'b', 'c', 'd', 'e', 'f']
s = pd.Series(marks, index = i)

print(s)
print(s.index)
```

Output

```
a    56
b    45
c    35
d    41
e    44
f    60
dtype: int64
Index(['a', 'b', 'c', 'd', 'e', 'f'], dtype='object')
```

1.3. dtypes

- ✓ dtypes is predefined attribute in Series class.
- ✓ We can access dtypes attribute by using series object.
- ✓ This attribute returns data type of series column.

Program Accessing dtypes attribute.
Name demo6.py

```
import pandas as pd

marks = [56, 45, 35, 41, 44, 60]
s = pd.Series(marks)

print(s)
print(s.dtypes)
```

Output

```
0    56
1    45
2    35
3    41
4    44
5    60
dtype: int64
int64
```

Program Name Accessing dtypes attribute.
demo7.py

```
import pandas as pd

salaries = [1000.23, 1100.45, 8889.7, 999.87]
s = pd.Series(salaries)

print(s)
print(s.dtypes)
```

Output

```
0    1000.23
1    1100.45
2    8889.70
3     999.87
dtype: float64
float64
```


Program Accessing dtypes attribute.
Name demo8.py

```
import pandas as pd

names = ["Daniel", "Abhinav", "Dinesh", "Akshitha"]
s = pd.Series(names)

print(s)
print(s.dtypes)
```

Output

```
0    Daniel
1  Abhinav
2    Dinesh
3  Akshitha
dtype: object
object
```

1.4. size

- ✓ size is predefined attribute in Series class.
- ✓ We can access size attribute by using series object.
- ✓ This attribute returns number of values in series.

Program Accessing size attribute.
Name demo9.py

```
import pandas as pd

marks = [56, 45, 35, 41, 44, 60]
s = pd.Series(marks)

print(s)
print(s.size)
```

Output

```
0    56
1    45
2    35
3    41
4    44
5    60
dtype: int64
6
```