

pandaswork

June 9, 2023

Q1. Create a Pandas Series that contains the following data: 4, 8, 15, 16, 23, and 42. Then, print the series.

```
[1]: import pandas as pd
```

```
[2]: s=( 4, 8, 15, 16, 23,42)
```

```
[3]: s
```

```
[3]: (4, 8, 15, 16, 23, 42)
```

```
[4]: type(s)
```

```
[4]: tuple
```

```
[5]: s1=pd.Series(s)
```

```
[6]: s1
```

```
[6]: 0      4  
     1      8  
     2     15  
     3     16  
     4     23  
     5     42  
     dtype: int64
```

```
[7]: type(s1)
```

```
[7]: pandas.core.series.Series
```

Q2. Create a variable of list type containing 10 elements in it, and apply pandas.Series function on the variable print it.

```
[8]: s=( 4, 8, 15, 16, 23,42,110,20,30,50)
```

```
[9]: s
```

```
[9]: (4, 8, 15, 16, 23, 42, 110, 20, 30, 50)
```

```
[10]: s1 = pd.Series(s)
```

```
[11]: s1
```

```
[11]: 0      4
      1      8
      2     15
      3     16
      4     23
      5     42
      6    110
      7     20
      8     30
      9     50
      dtype: int64
```

```
[12]: pd.DataFrame(s1)
```

```
[12]:      0
0      4
1      8
2     15
3     16
4     23
5     42
6    110
7     20
8     30
9     50
```

```
[13]: type(s1)
```

```
[13]: pandas.core.series.Series
```

```
[16]: data = {'Name': ['alice', 'bob', 'clarie'],
              'Age': [25, 30, 27],
              'gender': ['female', 'male', 'female']}

df = pd.DataFrame(data)

df
```

```
[16]:      Name  Age  gender
0   alice   25  female
1    bob   30   male
2  clarie   27  female
```

Q4. What is 'DataFrame' in pandas and how is it different from pandas.series? Explain with an example.

```
[ ]:
```