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Creating a datafrance from Per

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A computer science po

Series is a type of list in panda

in Pandas Series we return an object in the form of its

length of values in series.

Hire with

Later in this article, we will discuss dataframes in par difference between Series and Dataframe. Series can





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dataframe can be made of more than one series or we can say that a dataframe is a collection of series that can be used to analyse the data.

Code #1: Creating a simple Series

```
import pandas as pd
import matplotlib.pyplot as plt

author = ['Jitender', 'Purnima', 'Arpit', 'Jyoti']

auth_series = pd.Series(author)
print(auth_series)
```

Output:

- 0 Jitender
- 1 Purnima
- 2 Arpit
- 3 Jyoti

dtype: object

Let's check type of Series:



X

```
import pandas as pd
import matplotlib.pyplot as plt

author = ['Jitender', 'Purnima', 'Arpit', 'Jy
auth_series = pd.Series(author)
print(type(auth_series))
```

Output:

<class 'pandas.core.series.Series'>







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Code #2: Creating Dataframe from Series

```
import pandas as pd
import matplotlib.pyplot as plt

author = ['Jitender', 'Purnima', 'Arpit', 'Jyoti']
article = [210, 211, 114, 178]

auth_series = pd.Series(author)
article_series = pd.Series(article)

frame = { 'Author': auth_series, 'Article': article_series }

result = pd.DataFrame(frame)

print(result)
```

Output:

	Author	Article
0	Jitender	210
1	Purnima	211
2	Arpit	114
3	Jyoti	178

Explanation:

We are combining two series *Author* and *Article published*. Create a dictionary so that we can combine the metadata for series. Metadata is the data of data that can define the series of values. Pass this dictionary to pandas DataFrame and finally you can see the result as combination of two series i.e f author and number of articles.

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```
import pandas as pd
import matplotlib.pyplot as plt

author = ['Jitender', 'Purnima', 'Arpit', 'Jyarticle = [210, 211, 114, 178]

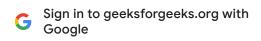
auth_series = pd.Series(author)
article_series = pd.Series(article)

frame = { 'Author': auth_series, 'Article': a

result = pd.DataFrame(frame)
age = [21, 21, 24, 23]

result['Age'] = pd.Series(age)

print(result)
```







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Output:

```
Author Article Age
  Jitender
                        21
                  210
1
    Purnima
                 211
                        21
2
      Arpit
                 114
                        24
                        23
3
      Jyoti
                 178
```

Explanation:

We have added one more series externally named as *age* of the authors, then directly added this series in the pandas dataframe. Remember one thing if any value is missing then by default it will be converted into NaN value i.e *null* by default.

Code #4: Missing value in dataframe

```
import pandas as pd
import matplotlib.pyplot as plt

author = ['Jitender', 'Purnima', 'Arpit', 'Jyoti']
article = [210, 211, 114, 178]

auth_series = pd.Series(author)
article_series = pd.Series(article)

frame = { 'Author': auth_series, 'Article': article_series }

result = pd.DataFrame(frame)
age = [21, 21, 23]

result['Age'] = pd.Series(age)
```



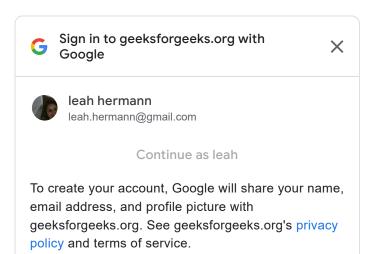
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Output:

	Author	Article	Age
0	Jitender	210	21.0
1	Purnima	211	21.0
2	Arpit	114	23.0
3	Jyoti	178	NaN

Code #5: Data Plot on graph

Using plot.bar() we have created a bar graph.



```
import pandas as pd
import matplotlib.pyplot as plt

author = ['Jitender', 'Purnima', 'Arpit', 'Jyoti']
article = [210, 211, 114, 178]

auth_series = pd.Series(author)
article_series = pd.Series(article)

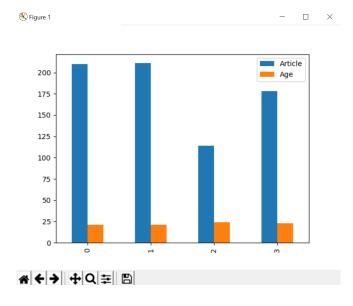
frame = { 'Author': auth_series, 'Article': article_series }

result = pd.DataFrame(frame)
age = [21, 21, 24, 23]

result['Age'] = pd.Series(age)

result.plot.bar()
plt.show()
```

Output:

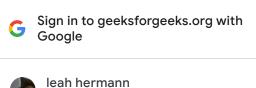




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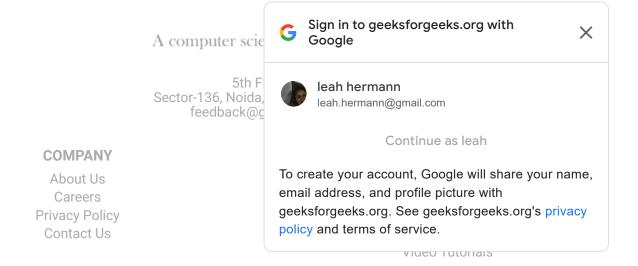
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