

```
import pandas as pd
```

```
data = {'Country':['beligiyum', 'India','Brazil'],
'Capital' : ['Brussels','New Delhi','brasillia'],
'Population' : [11190886,1303171035,202747528]}
```

```
df = pd.DataFrame(data,columns=['Country','Capital','Population'])
```

df

	Country	Capital	Population	
0	beligiyum	Brussels	11190886	
1	India	New Delhi	1303171035	
2	Brazil	brasillia	202747528	

Next steps:

[Generate code with df](#)

[New interactive sheet](#)

```
df1 = pd.read_csv("BigBasket.csv")
```

df1



	ProductName	Brand	Price	DiscountPrice	Image_Url	Quantity	Category
0	Onion (Loose)	Fresho	69.75	52.0	https://www.bigbasket.com/media/uploads/p/l/40...	2 kg	Fruits & Vegetables
1	Onion	Fresho	174.35	130.0	https://www.bigbasket.com/media/uploads/p/l/12...	5 kg	Fruits & Vegetables
2	Onion (Loose)	Fresho	34.87	26.0	https://www.bigbasket.com/media/uploads/p/l/10...	1 kg	Fruits & Vegetables
3	Onion	Fresho	69.74	52.0	https://www.bigbasket.com/media/uploads/p/l/12...	2 kg	Fruits & Vegetables
4	Onion (Loose)	Fresho	174.37	129.0	https://www.bigbasket.com/media/uploads/p/l/10...	5 kg	Fruits & Vegetables
...
8203	Foil Alphabet Balloon - Letter V, Party Decor,...	Bvishal	49.00	25.0	https://www.bigbasket.com/media/uploads/p/l/40...	1 pc	Cleaning & Household
8204	Decoration Balls - Used For Parties, Unique De...	Bvishal	399.00	249.0	https://www.bigbasket.com/media/uploads/p/l/40...	6 pcs	Cleaning & Household
8205	Foundation Blending Brush - 230	PAC	465.00	232.5	https://www.bigbasket.com/media/uploads/p/l/40...	1 pc	Beauty & Hygiene
8206	One Week Immunity Booster	The Healthy Company	799.00	799.0	https://www.bigbasket.com/media/uploads/p/l/40...	28 g	Beauty & Hygiene
8207	Blush & Glow - Green Apple Apricot Gel Scrub, ...	Lakme	250.00	175.0	https://www.bigbasket.com/media/uploads/p/l/40...	100 g	Beauty & Hygiene

8208 rows × 9 columns



Next steps: [Generate code with df1](#) [New interactive sheet](#)

df.head()

	Country	Capital	Population	
0	beligiyum	Brussels	11190886	
1	India	New Delhi	1303171035	
2	Brazil	brasillia	202747528	

Next steps: [Generate code with df](#) [New interactive sheet](#)

df.tail()

	Country	Capital	Population	
0	beligiyum	Brussels	11190886	
1	India	New Delhi	1303171035	
2	Brazil	brasillia	202747528	

df.sample()

	Country	Capital	Population	
2	Brazil	brasillia	202747528	



df.shape

(3, 3)

df.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3 entries, 0 to 2
Data columns (total 3 columns):
#   Column      Non-Null Count  Dtype
---  -
0   Country     3 non-null      object
1   Capital     3 non-null      object
2   Population  3 non-null      int64
dtypes: int64(1), object(2)
memory usage: 204.0+ bytes
```

df.describe()

	Population	
count	3.000000e+00	
mean	5.057031e+08	
std	6.972372e+08	
min	1.119089e+07	
25%	1.069692e+08	
50%	2.027475e+08	
75%	7.529593e+08	
max	1.303171e+09	

df.dtypes

```

      0
Country  object
Capital  object
Population int64

dtype: object
```

```
df.columns

Index(['Country', 'Capital', 'Population'], dtype='object')
```

```
df.index

RangeIndex(start=0, stop=3, step=1)
```

```
df1["Price"]
```

```

      Price
0      69.75
1     174.35
2      34.87
3      69.74
4     174.37
...      ...
8203    49.00
8204   399.00
8205   465.00
8206   799.00
8207   250.00
8208 rows x 1 columns

dtype: float64
```

Start coding or [generate](#) with AI.

```
df["columns"]
```



```
df.isull().sum()/len(df1)
```

```
df.isnotnull()
```

```
df.droupna()
```

```
df.fillna()
```

```
df.replace(1,"one ")
```

	Country	Capital	Population	
0	beligiyum	Brussels	11190886	
1	India	New Delhi	1303171035	
2	Brazil	brasillia	202747528	

```
df.rename(columns ={"old": "new"})
```

	Country	Capital	Population
0	beligiyum	Brussels	11190886
1	India	New Delhi	1303171035
2	Brazil	brasillia	202747528

```
df.drop_duplicates()
```

	Country	Capital	Population
0	beligiyum	Brussels	11190886
1	India	New Delhi	1303171035
2	Brazil	brasillia	202747528

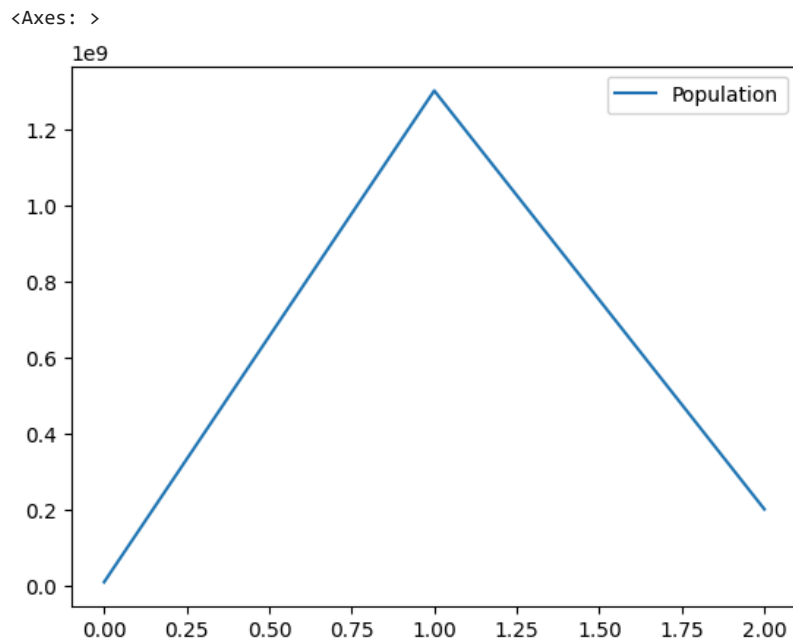
```
df.groupby("country").count()
```

```
-----  
KeyError                                Traceback (most recent call last)  
/tmp/ipython-input-2287284601.py in <cell line: 0>()  
----> 1 df.groupby("country").count()  
  
-----  
      2 frames -----  
/usr/local/lib/python3.12/dist-packages/pandas/core/groupby/grouper.py in get_grouper(obj, key, axis, level,  
sort, observed, validate, dropna)  
    1041         in_axis, level, gpr = False, gpr, None  
    1042     else:  
-> 1043         raise KeyError(gpr)  
    1044     elif isinstance(gpr, Grouper) and gpr.key is not None:  
    1045         # Add key to exclusions  
  
KeyError: 'country'
```

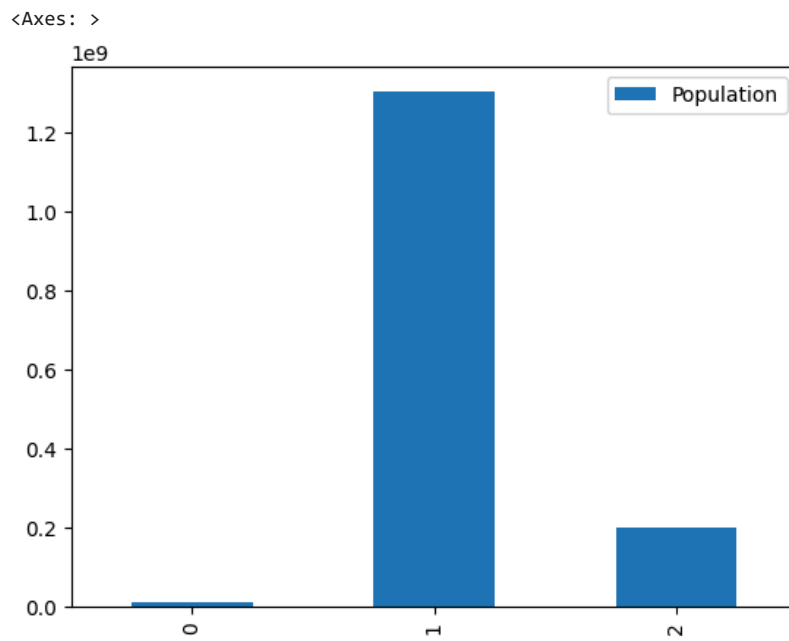
Next steps: [Explain error](#)

```
df.['columns'].value_counts()
```

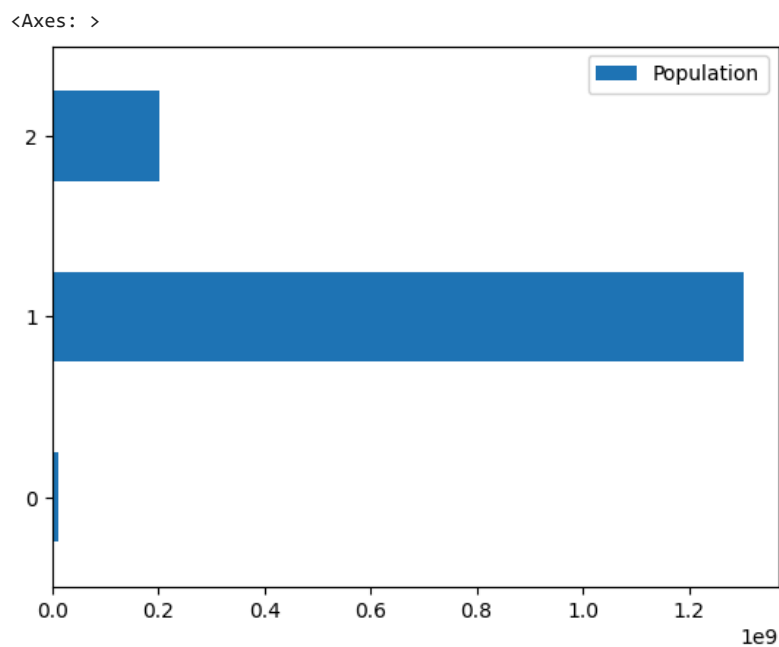
```
df.plot(kind='line')
```



```
df.plot(kind='bar')
```

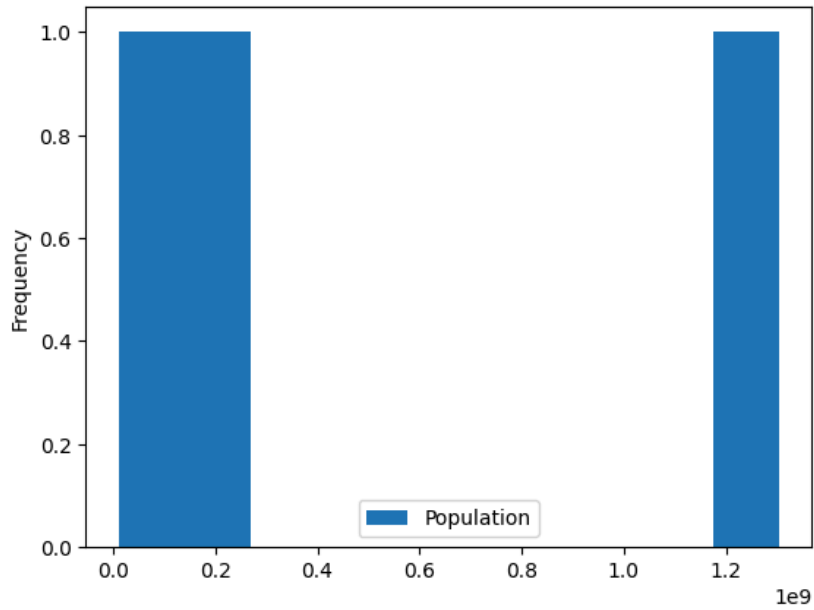


```
df.plot(kind='barh')
```



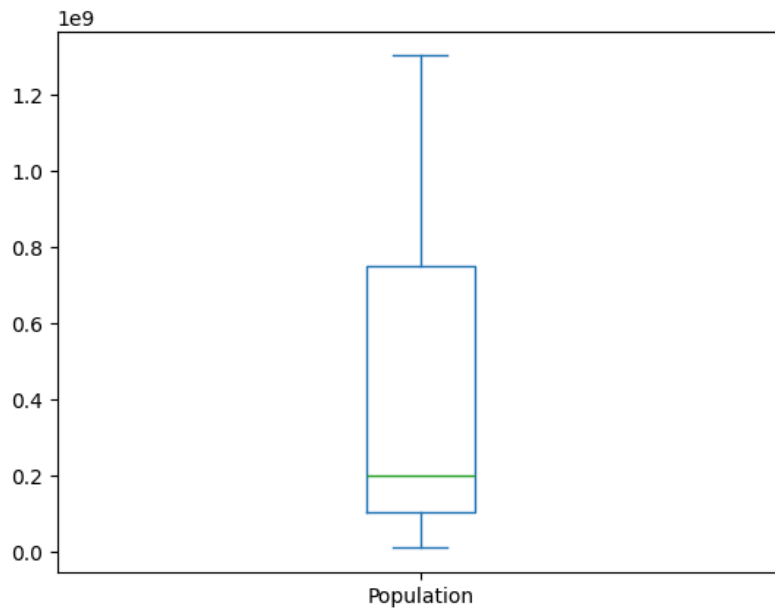
```
df.plot(kind='hist')
```

<Axes: ylabel='Frequency'>



df.plot(kind='box')

<Axes: >



df.plot(kind='kde')

<Axes: ylabel='Density'>

