

```
In [ ]: import pandas as pd
import numpy as np

applestock = pd.read_csv("test.csv", parse_dates=True, index_col=0)
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In [23]: applestock
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Out[23]:
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	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
0	892	3	Kelly, Mr. James	male	34.5	0	0	330911	7.8292	Na
1	893	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.0000	Na
2	894	2	Myles, Mr. Thomas Francis	male	62.0	0	0	240276	9.6875	Na
3	895	3	Wirz, Mr. Albert	male	27.0	0	0	315154	8.6625	Na
4	896	3	Hirvonen, Mrs. Alexander (Helga E Lindqvist)	female	22.0	1	1	3101298	12.2875	Na
5	897	3	Svensson, Mr. Johan Cervin	male	14.0	0	0	7538	9.2250	Na
6	898	3	Connolly, Miss. Kate	female	30.0	0	0	330972	7.6292	Na
7	899	2	Caldwell, Mr. Albert Francis	male	26.0	1	1	248738	29.0000	Na

	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
8	900	3	Abraham, Mrs. Joseph (Sophie Halaut Easu)	female	18.0	0	0	2657	7.2292	Na
9	901	3	Davies, Mr. John Samuel	male	21.0	2	0	A/4 48871	24.1500	Na
10	902	3	Ilieff, Mr. Ylio	male	NaN	0	0	349220	7.8958	Na
11	903	1	Jones, Mr. Charles Cresson	male	46.0	0	0	694	26.0000	Na
12	904	1	Snyder, Mrs. John Pillsbury (Nelle Stevenson)	female	23.0	1	0	21228	82.2667	B4
13	905	2	Howard, Mr. Benjamin	male	63.0	1	0	24065	26.0000	Na
14	906	1	Chaffee, Mrs. Herbert Fuller (Carrie Constance...	female	47.0	1	0	W.E.P. 5734	61.1750	E3
15	907	2	del Carlo, Mrs. Sebastiano (Argenia Genovesi)	female	24.0	1	0	SC/PARIS 2167	27.7208	Na
16	908	2	Keane, Mr. Daniel	male	35.0	0	0	233734	12.3500	Na
17	909	3	Assaf, Mr. Gerios	male	21.0	0	0	2692	7.2250	Na
18	910	3	Ilmakangas, Miss. Ida Livija	female	27.0	1	0	STON/O2. 3101270	7.9250	Na
19	911	3	Assaf Khalil, Mrs. Mariana (Miriam)"	female	45.0	0	0	2696	7.2250	Na

	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
20	912	1	Rothschild, Mr. Martin	male	55.0	1	0	PC 17603	59.4000	Na
21	913	3	Olsen, Master. Artur Karl	male	9.0	0	1	C 17368	3.1708	Na
22	914	1	Flegenheim, Mrs. Alfred (Antoinette)	female	NaN	0	0	PC 17598	31.6833	Na
23	915	1	Williams, Mr. Richard Norris II	male	21.0	0	1	PC 17597	61.3792	Na
24	916	1	Ryerson, Mrs. Arthur Larned (Emily Maria Borie)	female	48.0	1	3	PC 17608	262.3750	B5 B5 B6 B6
25	917	3	Robins, Mr. Alexander A	male	50.0	1	0	A/5. 3337	14.5000	Na
26	918	1	Ostby, Miss. Helene Ragnhild	female	22.0	0	1	113509	61.9792	B3
27	919	3	Daher, Mr. Shedid	male	22.5	0	0	2698	7.2250	Na
28	920	1	Brady, Mr. John Bertram	male	41.0	0	0	113054	30.5000	A2
29	921	3	Samaan, Mr. Elias	male	NaN	2	0	2662	21.6792	Na
...
388	1280	3	Canavan, Mr. Patrick	male	21.0	0	0	364858	7.7500	Na
389	1281	3	Palsson, Master. Paul Folke	male	6.0	3	1	349909	21.0750	Na

	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
390	1282	1	Payne, Mr. Vivian Ponsonby	male	23.0	0	0	12749	93.5000	B2
391	1283	1	Lines, Mrs. Ernest H (Elizabeth Lindsey James)	female	51.0	0	1	PC 17592	39.4000	D2
392	1284	3	Abbott, Master. Eugene Joseph	male	13.0	0	2	C.A. 2673	20.2500	Na
393	1285	2	Gilbert, Mr. William	male	47.0	0	0	C.A. 30769	10.5000	Na
394	1286	3	Kink- Heilmann, Mr. Anton	male	29.0	3	1	315153	22.0250	Na
395	1287	1	Smith, Mrs. Lucien Philip (Mary Eloise Hughes)	female	18.0	1	0	13695	60.0000	C3
396	1288	3	Colbert, Mr. Patrick	male	24.0	0	0	371109	7.2500	Na
397	1289	1	Frolicher- Stehli, Mrs. Maxmillian (Margaretha ...)	female	48.0	1	1	13567	79.2000	B4
398	1290	3	Larsson- Rondberg, Mr. Edvard A	male	22.0	0	0	347065	7.7750	Na
399	1291	3	Conlon, Mr. Thomas Henry	male	31.0	0	0	21332	7.7333	Na
400	1292	1	Bonnell, Miss. Caroline	female	30.0	0	0	36928	164.8667	C

	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
401	1293	2	Gale, Mr. Harry	male	38.0	1	0	28664	21.0000	Na
402	1294	1	Gibson, Miss. Dorothy Winifred	female	22.0	0	1	112378	59.4000	Na
403	1295	1	Carrau, Mr. Jose Pedro	male	17.0	0	0	113059	47.1000	Na
404	1296	1	Frauenthal, Mr. Isaac Gerald	male	43.0	1	0	17765	27.7208	D4
405	1297	2	Nourney, Mr. Alfred (Baron von Drachstedt)"	male	20.0	0	0	SC/PARIS 2166	13.8625	D3
406	1298	2	Ware, Mr. William Jeffery	male	23.0	1	0	28666	10.5000	Na
407	1299	1	Widener, Mr. George Dunton	male	50.0	1	1	113503	211.5000	C8
408	1300	3	Riordan, Miss. Johanna Hannah""	female	NaN	0	0	334915	7.7208	Na
409	1301	3	Peacock, Miss. Treasteall	female	3.0	1	1	SOTON/O.Q. 3101315	13.7750	Na
410	1302	3	Naughton, Miss. Hannah	female	NaN	0	0	365237	7.7500	Na
411	1303	1	Minahan, Mrs. William Edward (Lillian E Thorpe)	female	37.0	1	0	19928	90.0000	C7

	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
412	1304	3	Henriksson, Miss. Jenny Lovisa	female	28.0	0	0	347086	7.7750	Na
413	1305	3	Spector, Mr. Woolf	male	NaN	0	0	A.5. 3236	8.0500	Na
414	1306	1	Oliva y Ocana, Dona. Fermina	female	39.0	0	0	PC 17758	108.9000	C10
415	1307	3	Saether, Mr. Simon Sivertsen	male	38.5	0	0	SOTON/O.Q. 3101262	7.2500	Na
416	1308	3	Ware, Mr. Frederick	male	NaN	0	0	359309	8.0500	Na
417	1309	3	Peter, Master. Michael J	male	NaN	1	1	2668	22.3583	Na

418 rows × 11 columns



```
In [34]: import numpy as np
s = pd.Series([1,3,5,np.nan,6,8])

s
```

```
Out[34]: 0    1.0
1    3.0
2    5.0
3    NaN
4    6.0
5    8.0
dtype: float64
```

```
In [35]: dates = pd.date_range('20130101', periods=6)
dates
```

```
Out[35]: DatetimeIndex(['2013-01-01', '2013-01-02', '2013-01-03', '2013-01-04',  
                        '2013-01-05', '2013-01-06'],  
                        dtype='datetime64[ns]', freq='D')
```

```
In [ ]: !pip install ipyleaflet
```

```
In [37]: !jupyter nbextension enable --py --sys-prefix ipyleaflet  
Enabling notebook extension jupyter-leaflet/extension...  
- Validating: OK
```

```
In [1]: from ipyleaflet import Map  
Map(center=[23.777176, 90.399452], zoom=10)
```

#Simple plotting Ex.

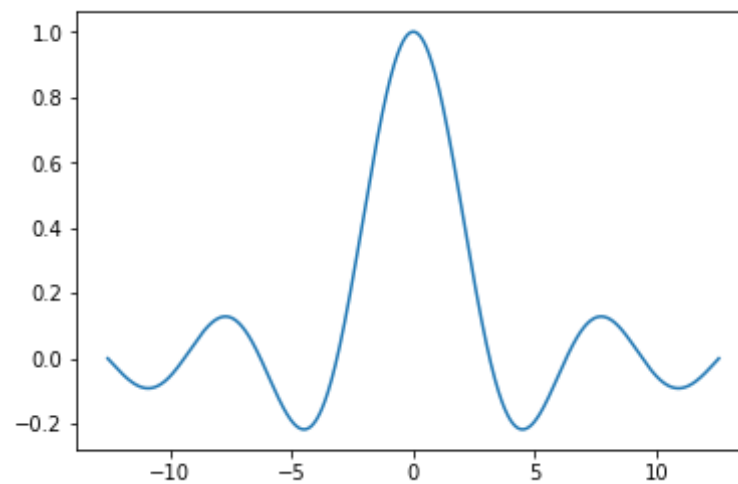
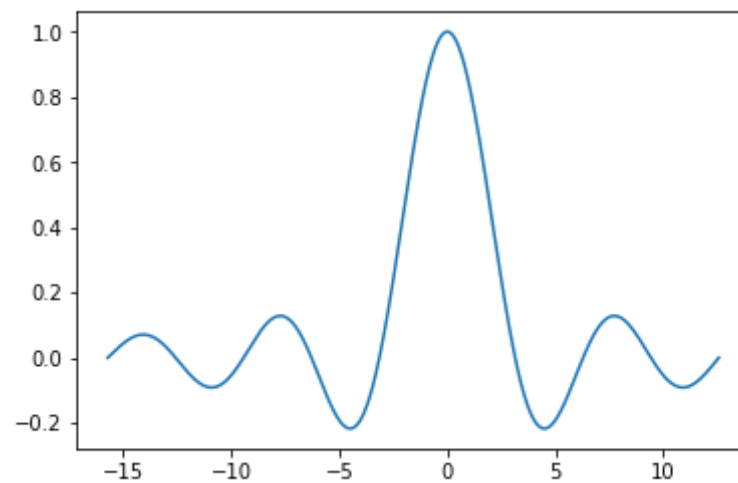
This is a float *sinc* function

$$f(x) = \frac{\sin(x)}{x}$$

```
In [6]: %matplotlib inline  
  
import numpy as np  
import matplotlib.pyplot as plt  
pi = np.pi  
x = np.linspace(-5*pi, 4*pi, 2000)  
  
plt.plot(x, np.sin(x)/x)  
plt.show()  
  
import numpy as np  
import matplotlib.pyplot as plt  
pi = np.pi
```

```
y = np.linspace(-4*pi, 4*pi, 1000)

plt.plot(y, np.sin(y)/y)
plt.show()
```



In []: