```
Chapter 4 - Practical Data Visualization
Segment 5 - Visualizing Time Series
```

In [1]:
```
import numpy as np
from numpy.random import randn
import pandas as pd
from pandas import Series, DataFrame

import matplotlib.pyplot as plt
from pylab import rcParams
```

In [3]:
```
%matplotlib inline
rcParams['figure.figsize'] = 5, 4
```

```
The simplest time series plot
```

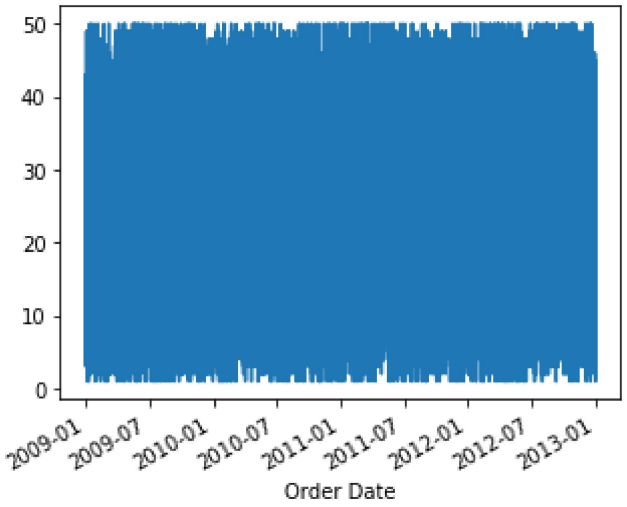
In [4]:
```
address = 'C:/Users/danal/Desktop/ExerciseFiles/Data/Superstore-Sales.csv'

df = pd.read_csv(address, index_col='Order Date', encoding='cp1252', parse_dates=
df.head()
```

Out[4]:

Order Date	Row ID	Order ID	Order Priority	Order Quantity	Sales	Discount	Ship Mode	Profit	Unit Price	Shipping Cost
2010-10-13	1	3	Low	6	261.5400	0.04	Regular Air	-213.25	38.94	35.00
2012-10-01	49	293	High	49	10123.0200	0.07	Delivery Truck	457.81	208.16	68.02
2012-10-01	50	293	High	27	244.5700	0.01	Regular Air	46.71	8.69	2.99
2011-07-10	80	483	High	30	4965.7595	0.08	Regular Air	1198.97	195.99	3.99
2010-08-28	85	515	Not Specified	19	394.2700	0.08	Regular Air	30.94	21.78	5.94

In [5]:
```
df['Order Quantity'].plot()
```

Out[5]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x1e75f9df7c8>
```



In [8]:
```
df2 = df.sample(n=100, random_state=25, axis=0)

plt.xlabel("Order Date")
plt.ylabel('Order Quantity')
plt.title('Superstore Sales')

df2['Order Quantity'].plot()
```

Out[8]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x1e7612b6e08>
```