

Module 02

Data Input and Output

Data Science Developer

Using Pandas

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

CSV

Input

```
In [2]: df = pd.read_csv('example')  
df
```

Out[2]:

	a	b	c	d
0	0	1	2	3
1	4	5	6	7
2	8	9	10	11
3	12	13	14	15

CSV

Output

```
In [3]: df.to_csv('example',index=False)
```

Excel Input

```
In [4]: pd.read_excel('Excel_Sample.xlsx', sheet_name='Sheet1')
```

Out[4]:

	a	b	c	d
0	0	1	2	3
1	4	5	6	7
2	8	9	10	11
3	12	13	14	15

Excel Output

```
In [5]: df.to_excel('Excel_Sample.xlsx', sheet_name='Sheet1')
```

HTML

Input

```
In [6]: df = pd.read_html('http://www.fdic.gov/bank/individual/failed/banklist.html')
```

```
In [8]: df[0].head()
```

Out[8]:

	Bank Name	City	ST	CERT	Acquiring Institution	Closing Date	Updated Date
0	Washington Federal Bank for Savings	Chicago	IL	30570	Royal Savings Bank	December 15, 2017	February 21, 2018
1	The Farmers and Merchants State Bank of Argonia	Argonia	KS	17719	Conway Bank	October 13, 2017	February 21, 2018
2	Fayette County Bank	Saint Elmo	IL	1802	United Fidelity Bank, fsb	May 26, 2017	July 26, 2017
3	Guaranty Bank, (d/b/a BestBank in Georgia & Mi...	Milwaukee	WI	30003	First-Citizens Bank & Trust Company	May 5, 2017	March 22, 2018
4	First NBC Bank	New Orleans	LA	58302	Whitney Bank	April 28, 2017	December 5, 2017