In [1]:

```
# Pandas
import numpy as np
import pandas as pd
```

In [2]:

```
help(pd.read_csv)
```

. . .

In [3]:

```
# read data set
df = pd.read_csv("sets//data.csv")
df
```

Out[3]:

	ID	Name	Industry	Inception	Revenue	Expenses	Profit	Growth
0	1	Lamtone	IT Services	2009	$11,757,018	6,482,465 Dollars	5274553	30%
1	2	Stripfind	Financial Services	2010	$12,329,371	916,455 Dollars	11412916	20%
2	3	Canecorporation	Health	2012	$10,597,009	7,591,189 Dollars	3005820	7%
3	4	Mattouch	IT Services	2013	$14,026,934	7,429,377 Dollars	6597557	26%
4	5	Techdrill	Health	2009	$10,573,990	7,435,363 Dollars	3138627	8%
5	6	Techline	Health	2006	$13,898,119	5,470,303 Dollars	8427816	23%
6	7	Cityace	Health	2010	$9,254,614	6,249,498 Dollars	3005116	6%
7	8	Kayelectronics	Health	2009	$9,451,943	3,878,113 Dollars	5573830	4%
8	9	Ganzlax	IT Services	2011	$14,001,180	916,455 Dollars	11901180	18%
9	10	Trantraxlax	Government Services	2011	$11,088,336	5,635,276 Dollars	5453060	7%

In [4]:

```
# read xls or excel
df1 = pd.read_excel("sets//movies.xls")
df1
```

. . .

In [5]:

```
# current datafile or ur code
import os
os.getcwd()
```

Out[5]:

```
'C:\\Users\\Mithun\\Desktop\\DS-CODE\\3. Pandas'
```

In [ ]:

```

```

In [6]:

```
# read data set
df = pd.read_csv("sets//data.csv")
df
```

Out[6]:

	ID	Name	Industry	Inception	Revenue	Expenses	Profit	Growth
0	1	Lamtone	IT Services	2009	$11,757,018	6,482,465 Dollars	5274553	30%
1	2	Stripfind	Financial Services	2010	$12,329,371	916,455 Dollars	11412916	20%
2	3	Canecorporation	Health	2012	$10,597,009	7,591,189 Dollars	3005820	7%
3	4	Mattouch	IT Services	2013	$14,026,934	7,429,377 Dollars	6597557	26%
4	5	Techdrill	Health	2009	$10,573,990	7,435,363 Dollars	3138627	8%
5	6	Techline	Health	2006	$13,898,119	5,470,303 Dollars	8427816	23%
6	7	Cityace	Health	2010	$9,254,614	6,249,498 Dollars	3005116	6%
7	8	Kayelectronics	Health	2009	$9,451,943	3,878,113 Dollars	5573830	4%
8	9	Ganzlax	IT Services	2011	$14,001,180	916,455 Dollars	11901180	18%
9	10	Trantraxlax	Government Services	2011	$11,088,336	5,635,276 Dollars	5453060	7%

In [7]:

```
# datatype of dataset
type(df)
```

Out[7]:

```
pandas.core.frame.DataFrame
```

In [8]:

```
# reading columns name
df.columns
```

Out[8]:

```
Index(['ID', 'Name', 'Industry', 'Inception', 'Revenue', 'Expenses', 'Profi
t',
       'Growth'],
      dtype='object')
```

In [ ]:

```

```

In [9]:

```
# read row
df2 = pd.read_csv("sets//data.csv", nrows=1)
df2
```

Out[9]:

	ID	Name	Industry	Inception	Revenue	Expenses	Profit	Growth
0	1	Lamtone	IT Services	2009	$11,757,018	6,482,465 Dollars	5274553	30%

In [10]:

```
# read row
df3 = pd.read_csv("sets//data.csv", nrows=2)
df3
```

Out[10]:

	ID	Name	Industry	Inception	Revenue	Expenses	Profit	Growth
0	1	Lamtone	IT Services	2009	$11,757,018	6,482,465 Dollars	5274553	30%
1	2	Stripfind	Financial Services	2010	$12,329,371	916,455 Dollars	11412916	20%

In [ ]:

```

```

In [11]:

```
# read row
df4 = pd.read_csv("sets/data.csv", nrows=5)
df4
```

Out[11]:

	ID	Name	Industry	Inception	Revenue	Expenses	Profit	Growth
0	1	Lamtone	IT Services	2009	$11,757,018	6,482,465 Dollars	5274553	30%
1	2	Stripfind	Financial Services	2010	$12,329,371	916,455 Dollars	11412916	20%
2	3	Canecorporation	Health	2012	$10,597,009	7,591,189 Dollars	3005820	7%
3	4	Mattouch	IT Services	2013	$14,026,934	7,429,377 Dollars	6597557	26%
4	5	Techdrill	Health	2009	$10,573,990	7,435,363 Dollars	3138627	8%

In [ ]:

```

```

In [13]:

```
# Column
df4 = pd.read_csv("sets//data.csv", usecols=[0])
df4
```

Out[13]:

	ID
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10

In [14]:

```
# Column
df4 = pd.read_csv("sets//data.csv", usecols=[2])
df4
```

Out[14]:

	Industry
0	IT Services
1	Financial Services
2	Health
3	IT Services
4	Health
5	Health
6	Health
7	Health
8	IT Services
9	Government Services

In [15]:

```
# Column
df4 = pd.read_csv("sets//data.csv", usecols=[0,2])
df4
```

Out[15]:

	ID	Industry
0	1	IT Services
1	2	Financial Services
2	3	Health
3	4	IT Services
4	5	Health
5	6	Health
6	7	Health
7	8	Health
8	9	IT Services
9	10	Government Services

In [16]:

```
# Column
df4 = pd.read_csv("sets//data.csv", usecols=[0,2,4])
df4
```

Out[16]:

	ID	Industry	Revenue
0	1	IT Services	$11,757,018
1	2	Financial Services	$12,329,371
2	3	Health	$10,597,009
3	4	IT Services	$14,026,934
4	5	Health	$10,573,990
5	6	Health	$13,898,119
6	7	Health	$9,254,614
7	8	Health	$9,451,943
8	9	IT Services	$14,001,180
9	10	Government Services	$11,088,336