

In [1]:

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

In [3]:

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

Out[3]:

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

In [4]:

```
# Skipping first row
# read csv file
df1 = pd.read_csv("sets//data.csv",skiprows=1)
df1
```

Out[4]:

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

In [5]:

```
# Skipping Sec row
# read csv file
df2 = pd.read_csv("sets//data.csv",skiprows=2)
df2
```

Out[5]:

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

In [ ]:

In [6]:

```
# read csv file
df3 = pd.read_csv("sets//data.csv", skiprows=1)
df3
```

Out[6]:

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

In [7]:

```
# read csv file
# how to replace default index column with required column by using index_col
df4= pd.read_csv("sets//data.csv",skiprows=1,index_col='ID')
df4
```

Out[7]:

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

In [8]:

```
# read csv file
df4= pd.read_csv("sets//data.csv",skiprows=1,index_col='Name')
df4
```

Out[8]:

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

In [ ]:

In [ ]:

```
# HEADER
# PREFIX
# NAMES
```

In [9]:

```
# read csv file
df5 = pd.read_csv("sets//data.csv")
df5
```

Out[9]:

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

In [10]:

```
# index of row one will be header
df6 = pd.read_csv("sets//data.csv",header=1)
df6
```

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%    |
| 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%     |

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