



Importing Necessary Libraries

In [1]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from bs4 import BeautifulSoup as bs
import requests
```

Extracting html Page from the url using BeautifulSoup

In [2]:

```
url = 'https://en.wikipedia.org/wiki/List_of_largest_companies_by_revenue'
page = requests.get(url)
print(url)
print(page)
```

```
https://en.wikipedia.org/wiki/List_of_largest_companies_by_revenue (http
s://en.wikipedia.org/wiki/List_of_largest_companies_by_revenue)
<Response [200]>
```

Making soup

In [3]:

```
soup=bs(page.text, 'html')
soup
```

```
MonthNames":["","January","February","March","April","May","June","July","August","September","October","November","December"],"wgRequestId":"a8b20057-b470-4541-bcb7-da5807f81490","wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNamespaceNumber":0,"wgPageName":"List_of_largest_companies_by_revenue","wgTitle":"List of largest companies by revenue","wgCurRevisionId":1171734107,"wgRevisionId":1171734107,"wgArticleId":997455,"wgIsArticle":true,"wgIsRedirect":false,"wgAction":"view","wgUserName":null,"wgUserGroups":["*"],"wgCategories":["Articles with short description","Short description is different from Wikidata","Lists of companies by revenue","Economy-related lists of superlatives"],"wgPageViewLanguage":"en","wgPageContentLanguage":"en","wgPageContentModel":"wikitext","wgRelevantPageName":"List_of_largest_companies_by_revenue","wgRelevantArticleId":997455,"wgIsProbablyEditable":true,"wgRelevantPageIsProbablyEditable":true,"wgRestrictionEdit":[],"wgRestrictionMove":[],"wgVisualEditor":{"pageLanguageCode":"en","pageLanguageDir":"ltr","pageVariantFallbacks":"en"},"wgMFDDisplayWikibaseDescriptions":{"search":true,"watchlist":true,"tagline":false,"nearby":true},"wgWMESchemaEditAttemptStepOversample":false,"wgWMEPageLength":20000,"wgNoticeProject":"wikimedia","wgFlaggedPageNames":{"top":{"not true"},"low":{"not true"/>
```

Extracting header

In [4]:

```
# way-1
title = soup.title
print(title)
print(title.text)
```

<title>List of largest companies by revenue - Wikipedia</title>
List of largest companies by revenue - Wikipedia

In [5]:

```
# way-2
h1 = soup.find('h1').getText()
print(h1)
print(h1.strip())
```

List of largest companies by revenue
List of largest companies by revenue

In [6]:

```
soup.find_all('p')
```

Out[6]:

```
[<p class="mw-empty-elt">
  </p>,
  <p>This list comprises the world's largest companies by <a href="/wiki/Consolidation_(business)" title="Consolidation (business)">consolidated</a>
  <a href="/wiki/Revenue" title="Revenue">revenue</a>, according to the <a href="/wiki/Fortune_Global_500" title="Fortune Global 500"><i>Fortune</i> Global 500</a> 2023 rankings and other sources.<sup class="reference" id="cite_ref-2"><a href="#cite_note-2">[2]</a></sup> American retail corporation
  <a href="/wiki/Walmart" title="Walmart">Walmart</a> has been the world's largest company by revenue since 2014.<sup class="reference" id="cite_ref-W_1-1"><a href="#cite_note-W-1">[1]</a></sup>
  </p>,
  <p>The list is limited to the top 50 companies, all of which have annual revenues exceeding US$130 billion. This list is incomplete, as not all companies disclose their information to the media and/or general public.<sup class="reference" id="cite_ref-3"><a href="#cite_note-3">[3]</a></sup>
  </p>,
  <p>Information in the list relates to the most recent <a href="/wiki/Fiscal_year" title="Fiscal year">fiscal year</a> (mostly FY 2022 or 2023)
  </p>]
```

In [7]:

```
print(soup.find_all('p', class_ ="mw-empty-elt"))
css_soup = bs('<p class="mw-empty-elt"></p>')
css_soup.p['class']
```

```
[<p class="mw-empty-elt">
  </p>]
```

Out[7]:

```
['mw-empty-elt']
```

Extracting Table

In [8]:

```
soup.find_all('table')
```

Out[8]:

```
[<table class="wikitable sortable" style="text-align:left;">
  <tbody><tr>
    <th rowspan="2" scope="col">Rank
  </th>
    <th rowspan="2" scope="col">Name
  </th>
    <th rowspan="2" scope="col">Industry
  </th>
    <th scope="col">Revenue
  </th>
    <th scope="col">Profit
  </th>
    <th rowspan="2" scope="col">Employees
  </th>
    <th rowspan="2" scope="col">Headquarters<sup class="reference" id="cite
e_ref-4"><a href="#cite_note-4">[note 1]</a></sup>
  </th>
    <th rowspan="2" scope="col"><a href="/wiki/State-owned_enterprise" tit
```

In [9]:

```
#soup.find_all('table', class_='wikitable sortable jquery-tablesorter')
table = soup.find_all('table')[0]
print(table)
```

```
<table class="wikitable sortable" style="text-align:left;">
  <tbody><tr>
    <th rowspan="2" scope="col">Rank
  </th>
    <th rowspan="2" scope="col">Name
  </th>
    <th rowspan="2" scope="col">Industry
  </th>
    <th scope="col">Revenue
  </th>
    <th scope="col">Profit
  </th>
    <th rowspan="2" scope="col">Employees
  </th>
    <th rowspan="2" scope="col">Headquarters<sup class="reference" id="cite
_ref-4"><a href="#cite_note-4">[note 1]</a></sup>
  </th>
    <th rowspan="2" scope="col"><a href="/wiki/State-owned_enterprise" titl
e="State-owned enterprise">State-owned</a>
```

In [10]:

```
table = soup.find_all('table', class_='wikitable sortable')[0]
table
```

```
e"><a href="/wiki/Saudi_Arabia" title="Saudi Arabia"></a></span></span> Saudi Arabia</td>
<td class="table-yes2" data-sort-value="Yes" style="background: #DFD; vertical-align: middle; text-align: center;"><span typeof="mw:File"><span title="Yes"></span></span></td>
<td><sup class="reference" id="cite_ref-5"><a href="#cite_note-5">[4]</a></sup>
```

In [11]:

```
titles = table.find_all('th')
titles
```

```
<th scope="row">18
</th>,
<th scope="row">19
</th>,
<th scope="row">20
</th>,
<th scope="row">21
</th>,
<th scope="row">22
</th>,
<th scope="row">23
</th>,
<th scope="row">24
</th>,
<th scope="row">25
</th>,
<th scope="row">26
</th>,
<th scope="row">27
</th>,
```

In [12]:

```
world_table = [title.text.strip() for title in titles]
print(world_table[1:9])
```

```
['Name', 'Industry', 'Revenue', 'Profit', 'Employees', 'Headquarters[note 1]', 'State-owned', 'Ref.']
```

In [13]:

```
df = pd.DataFrame(columns =world_table[1:9])
df
```

Out[13]:

| Name | Industry | Revenue | Profit | Employees | Headquarters[<small>note 1</small>] | State-owned | Ref. |
|------|----------|---------|--------|-----------|---------------------------------------|-------------|------|
|------|----------|---------|--------|-----------|---------------------------------------|-------------|------|

In [14]:

```
column = table.find_all('tr')
for row in column:
    row_data = row.find_all('td')
    each_rows = [data.text.strip() for data in row_data]
    print(each_rows)
```

[]

[]

['Walmart', 'Retail', '\$611,289', '\$11,680', '2,100,000', 'United States', '', '[1]']

['Saudi Aramco', 'Oil and gas', '\$603,651', '\$159,069', '70,496', 'Saudi Arabia', '', '[4]']

['State Grid Corporation of China', 'Electricity', '\$530,009', '\$8,192', '870,287', 'China', '', '[5]']

['Amazon.com, Inc.', 'Retail', '\$513,983', '-\$2,722', '1,541,000', 'United States', '', '[6]']

['Vitol', 'Commodities', '\$505,000', '\$15,000', '1,560', 'Switzerland', '', '[7][8]']

['China National Petroleum Corporation', 'Oil and gas', '\$483,019', '\$21,080', '1,087,049', 'China', '', '[9]']

['China Petrochemical Corporation', 'Oil and gas', '\$471,154', '\$9,657', '527,487', 'China', '', '[10]']

['ExxonMobil', 'Oil and gas', '\$413,680', '\$55,740', '63,000', 'United States', '', '[11]']

['Apple Inc.', 'Electronics', '\$394,328', '\$99,803', '164,000', 'United States', '', '[12]']

['Shell plc', 'Oil and gas', '\$386,201', '\$20,120', '93,000', 'United Kingdom', '', '[13]']

['UnitedHealth Group', 'Healthcare', '\$324,162', '\$20,120', '400,000', 'United States', '', '[14]']

['CVS Health', 'Healthcare', '\$322,467', '\$4,149', '259,500', 'United States', '', '[15]']

['Trafigura', 'Commodities', '\$318,476', '\$6,994', '12,347', 'Singapore', '', '[16]']

['China State Construction Engineering', 'Construction', '\$305,885', '\$4,234', '382,492', 'China', '', '[17]']

['Berkshire Hathaway', 'Financials', '\$302,089', '-\$22,819', '383,000', 'United States', '', '[18]']

['Volkswagen Group', 'Automotive', '\$293,685', '\$15,233', '675,805', 'Germany', '', '[19]']

['Uniper', 'Electricity', '\$288,309', '-\$19,961', '7,008', 'Germany', '', '[20]']

['Alphabet Inc.', 'Information technology', '\$282,836', '\$59,972', '190,234', 'United States', '', '[21]']

['McKesson Corporation', 'Healthcare', '\$276,711', '\$3,560', '48,000', 'United States', '', '[22]']

['Toyota', 'Automotive', '\$274,491', '\$18,110', '375,235', 'Japan', '', '[23]']

['TotalEnergies', 'Oil and gas', '\$263,310', '\$20,526', '101,279', 'France', '', '[24]']

['Glencore', 'Commodities', '\$255,984', '\$17,320', '81,284', 'Switzerland', '', '[25]']

['BP', 'Oil and gas', '\$248,891', '-\$2,487', '67,600', 'United Kingdom', '', '[26]']

['Chevron Corporation', 'Oil and gas', '\$246,252', '\$35,465', '43,846', 'United States', '', '[27]']

['AmerisourceBergen', 'Healthcare', '\$238,587', '\$1,699', '41,500', 'United States', '', '[28]']

['Samsung Electronics', 'Electronics', '\$234,129', '\$42,398', '270,372', 'South Korea', '', '[29]']

['Costco', 'Retail', '\$226,954', '\$5,844', '304,000', 'United States', '', '[30]']

['Foxconn', 'Electronics', '\$222,535', '\$4,751', '767,062', 'Taiwan', '', '[31]']

['Industrial and Commercial Bank of China', 'Financials', '\$214,766', '\$53,589', '427,587', 'China', '', '[32]']

['China Construction Bank', 'Financials', '\$202,753', '\$48,145', '376,68

2', 'China', '', '[33]']
['Microsoft', 'Information technology', '\$198,270', '\$72,738', '221,000',
'United States', '', '[34]']
['Stellantis', 'Automotive', '\$188,888', '\$17,669', '272,367', 'Netherland
s', '', '[35]']
['Agricultural Bank of China', 'Financials', '\$187,061', '\$38,524', '452,2
58', 'China', '', '[36]']
['Ping An Insurance', 'Financials', '\$181,566', '\$12,454', '344,223', 'Chi
na', '', '[37]']
['Cardinal Health', 'Healthcare', '\$181,364', '-\$933', '46,035', 'United S
tates', '', '[38]']
['Cigna', 'Healthcare', '\$180,516', '\$6,668', '70,231', 'United States',
'', '[39]']
['Marathon Petroleum', 'Oil and gas', '\$180,012', '\$14,516', '17,800', 'Un
ited States', '', '[40]']
['Phillips 66', 'Oil and gas', '\$175,702', '\$11,024', '13,000', 'United St
ates', '', '[41]']
['Sinochem', 'Chemicals', '\$173,834', '-\$1', '220,760', 'China', '', '[4
2]']
['China Railway Engineering Corporation', 'Construction', '\$171,669', '\$2,
035', '314,792', 'China', '', '[43]']
['Valero Energy', 'Oil and gas', '\$171,189', '\$11,528', '9,743', 'United S
tates', '', '[44]']
['Gazprom', 'Oil and gas', '\$167,832', '\$17,641', '468,000', 'Russia', '',
'[45]']
['Cargill', 'Conglomerate', '\$165,000', '...', '155,000', 'United States',
'', '[46]']
['China National Offshore Oil Corporation', 'Oil and gas', '\$164,762', '\$1
6,988', '81,775', 'China', '', '[47]']
['China Railway Construction Corporation', 'Construction', '\$163,037',
\$1,800', '342,098', 'China', '', '[48]']
['Baowu', 'Steel', '\$161,698', '\$2,493', '245,675', 'China', '', '[49]']
['Schwarz Gruppe', 'Retail', '\$159,800', '...', '575,000', 'Germany', '',
'[50]']
['Mitsubishi Group', 'Conglomerate', '\$159,371', '\$8,723', '79,706', 'Japa
n', '', '[51]']
['Ford Motor Company', 'Automotive', '\$158,057', '-\$1,981', '173,000', 'Un
ited States', '', '[52]']
['Mercedes-Benz Group', 'Automotive', '\$157,403', '\$15,252', '168,797', 'G
ermany', '', '[53]']

In [15]:

```
column = table.find_all('tr')
for row in column[2:]:
    row_data = row.find_all('td')
    each_rows = [data.text.strip() for data in row_data]
    print(each_rows)
```

['Walmart', 'Retail', '\$611,289', '\$11,680', '2,100,000', 'United States', '', '[1]']

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['McKesson Corporation', 'Healthcare', '\$276,711', '\$3,560', '48,000', 'United States', '', '[22]']

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['Agricultural Bank of China', 'Financials', '\$187,061', '\$38,524', '452,258', 'China', '', '[36]']
['Ping An Insurance', 'Financials', '\$181,566', '\$12,454', '344,223', 'China', '', '[37]']
['Cardinal Health', 'Healthcare', '\$181,364', '-\$933', '46,035', 'United States', '', '[38]']
['Cigna', 'Healthcare', '\$180,516', '\$6,668', '70,231', 'United States', '', '[39]']
['Marathon Petroleum', 'Oil and gas', '\$180,012', '\$14,516', '17,800', 'United States', '', '[40]']
['Phillips 66', 'Oil and gas', '\$175,702', '\$11,024', '13,000', 'United States', '', '[41]']
['Sinochem', 'Chemicals', '\$173,834', '-\$1', '220,760', 'China', '', '[42]']
['China Railway Engineering Corporation', 'Construction', '\$171,669', '\$2,035', '314,792', 'China', '', '[43]']
['Valero Energy', 'Oil and gas', '\$171,189', '\$11,528', '9,743', 'United States', '', '[44]']
['Gazprom', 'Oil and gas', '\$167,832', '\$17,641', '468,000', 'Russia', '', '[45]']
['Cargill', 'Conglomerate', '\$165,000', '...', '155,000', 'United States', '', '[46]']
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['Baowu', 'Steel', '\$161,698', '\$2,493', '245,675', 'China', '', '[49]']
['Schwarz Gruppe', 'Retail', '\$159,800', '...', '575,000', 'Germany', '', '[50]']
['Mitsubishi Group', 'Conglomerate', '\$159,371', '\$8,723', '79,706', 'Japan', '', '[51]']
['Ford Motor Company', 'Automotive', '\$158,057', '-\$1,981', '173,000', 'United States', '', '[52]']
['Mercedes-Benz Group', 'Automotive', '\$157,403', '\$15,252', '168,797', 'Germany', '', '[53]']

In [16]:

```
column = table.find_all('tr')
for row in column[2:]:
    row_data = row.find_all('td')
    each_rows = [data.text.strip() for data in row_data]
    #print(each_rows)
    length = len(df)
    df.loc[length] = each_rows
df
```

Out[16]:

| | Name | Industry | Revenue | Profit | Employees | Headquarters[^{note 1}] | Sta own |
|----|--------------------------------------|------------------------|-----------|-----------|-----------|-----------------------------------|------------|
| 0 | Walmart | Retail | \$611,289 | \$11,680 | 2,100,000 | United States | |
| 1 | Saudi Aramco | Oil and gas | \$603,651 | \$159,069 | 70,496 | Saudi Arabia | |
| 2 | State Grid Corporation of China | Electricity | \$530,009 | \$8,192 | 870,287 | China | |
| 3 | Amazon.com, Inc. | Retail | \$513,983 | −\$2,722 | 1,541,000 | United States | |
| 4 | Vitol | Commodities | \$505,000 | \$15,000 | 1,560 | Switzerland | |
| 5 | China National Petroleum Corporation | Oil and gas | \$483,019 | \$21,080 | 1,087,049 | China | |
| 6 | China Petrochemical Corporation | Oil and gas | \$471,154 | \$9,657 | 527,487 | China | |
| 7 | ExxonMobil | Oil and gas | \$413,680 | \$55,740 | 63,000 | United States | |
| 8 | Apple Inc. | Electronics | \$394,328 | \$99,803 | 164,000 | United States | |
| 9 | Shell plc | Oil and gas | \$386,201 | \$20,120 | 93,000 | United Kingdom | |
| 10 | UnitedHealth Group | Healthcare | \$324,162 | \$20,120 | 400,000 | United States | |
| 11 | CVS Health | Healthcare | \$322,467 | \$4,149 | 259,500 | United States | |
| 12 | Trafigura | Commodities | \$318,476 | \$6,994 | 12,347 | Singapore | |
| 13 | China State Construction Engineering | Construction | \$305,885 | \$4,234 | 382,492 | China | |
| 14 | Berkshire Hathaway | Financials | \$302,089 | −\$22,819 | 383,000 | United States | |
| 15 | Volkswagen Group | Automotive | \$293,685 | \$15,233 | 675,805 | Germany | |
| 16 | Uniper | Electricity | \$288,309 | −\$19,961 | 7,008 | Germany | |
| 17 | Alphabet Inc. | Information technology | \$282,836 | \$59,972 | 190,234 | United States | |
| 18 | McKesson Corporation | Healthcare | \$276,711 | \$3,560 | 48,000 | United States | |
| 19 | Toyota | Automotive | \$274,491 | \$18,110 | 375,235 | Japan | |
| 20 | TotalEnergies | Oil and gas | \$263,310 | \$20,526 | 101,279 | France | |
| 21 | Glencore | Commodities | \$255,984 | \$17,320 | 81,284 | Switzerland | |
| 22 | BP | Oil and gas | \$248,891 | −\$2,487 | 67,600 | United Kingdom | |
| 23 | Chevron Corporation | Oil and gas | \$246,252 | \$35,465 | 43,846 | United States | |
| 24 | AmerisourceBergen | Healthcare | \$238,587 | \$1,699 | 41,500 | United States | |
| 25 | Samsung Electronics | Electronics | \$234,129 | \$42,398 | 270,372 | South Korea | |
| 26 | Costco | Retail | \$226,954 | \$5,844 | 304,000 | United States | |
| 27 | Foxconn | Electronics | \$222,535 | \$4,751 | 767,062 | Taiwan | |

| | Name | Industry | Revenue | Profit | Employees | Headquarters[^{note 1}] | Sta own |
|----|---|------------------------|-----------|----------|-----------|-----------------------------------|------------|
| 28 | Industrial and Commercial Bank of China | Financials | \$214,766 | \$53,589 | 427,587 | China | |
| 29 | China Construction Bank | Financials | \$202,753 | \$48,145 | 376,682 | China | |
| 30 | Microsoft | Information technology | \$198,270 | \$72,738 | 221,000 | United States | |
| 31 | Stellantis | Automotive | \$188,888 | \$17,669 | 272,367 | Netherlands | |
| 32 | Agricultural Bank of China | Financials | \$187,061 | \$38,524 | 452,258 | China | |
| 33 | Ping An Insurance | Financials | \$181,566 | \$12,454 | 344,223 | China | |
| 34 | Cardinal Health | Healthcare | \$181,364 | −\$933 | 46,035 | United States | |
| 35 | Cigna | Healthcare | \$180,516 | \$6,668 | 70,231 | United States | |
| 36 | Marathon Petroleum | Oil and gas | \$180,012 | \$14,516 | 17,800 | United States | |
| 37 | Phillips 66 | Oil and gas | \$175,702 | \$11,024 | 13,000 | United States | |
| 38 | Sinochem | Chemicals | \$173,834 | −\$1 | 220,760 | China | |
| 39 | China Railway Engineering Corporation | Construction | \$171,669 | \$2,035 | 314,792 | China | |
| 40 | Valero Energy | Oil and gas | \$171,189 | \$11,528 | 9,743 | United States | |
| 41 | Gazprom | Oil and gas | \$167,832 | \$17,641 | 468,000 | Russia | |
| 42 | Cargill | Conglomerate | \$165,000 | ... | 155,000 | United States | |
| 43 | China National Offshore Oil Corporation | Oil and gas | \$164,762 | \$16,988 | 81,775 | China | |
| 44 | China Railway Construction Corporation | Construction | \$163,037 | \$1,800 | 342,098 | China | |
| 45 | Baowu | Steel | \$161,698 | \$2,493 | 245,675 | China | |
| 46 | Schwarz Gruppe | Retail | \$159,800 | ... | 575,000 | Germany | |
| 47 | Mitsubishi Group | Conglomerate | \$159,371 | \$8,723 | 79,706 | Japan | |
| 48 | Ford Motor Company | Automotive | \$158,057 | −\$1,981 | 173,000 | United States | |
| 49 | Mercedes-Benz Group | Automotive | \$157,403 | \$15,252 | 168,797 | Germany | |

Saving File to csv format

In [17]:

```
df.to_csv(r'WorldCompanies.csv')
```

In []:

