	Marwadi University		
Marwadi University	Faculty of Engineering and Technology		
Oniversity	Department of Information and Communication Technology		
Subject: Data Visualization	Aim: Web nego governing	using heavtifulgoup in mythen	
and Dashboard (01CT0410)	Aim: Web page scraping using beautifulsoup in python		
Experiment No: 10	Date: 19-02-2024	Enrollment No: 92200133030	

Aim: Web page scraping using beautifulsoup in python

IDE: Tableau

# In Lab:-

Task-1:- Collect the data of the top 100 big companies by revenue of USA

### Code:-

import pandas as pd

import requests

from bs4 import BeautifulSoup

url = "https://en.wikipedia.org/wiki/List\_of\_largest\_companies\_in\_the\_United\_States\_by\_revenue"

Page = requests.get(url)

Soup = BeautifulSoup(Page.text,"html")

Table = Soup.find\_all("table")

Table = Table[1]

Headers = Table.find\_all("th")

Titles = [titles.text.strip() for titles in Headers]

Dataset = pd.DataFrame(columns = Titles)

Rows = Table.find all('tr')

for row in Rows[1:]:

Data = row.find all('td')

Row Data = [row.text.strip() for row in Data]

length = len(Dataset)

Dataset.loc[length] = Row\_Data

print(Dataset)

Dataset.to\_excel("D:/Aryan Data/Usefull Data/Semester - 4/Data Visulization and Dashboards/Lab Manual/Exp-11 Web Scrapping Using Python/Largest Companies In USA by Revenue.xlsx",index=False) print("File Saved")

# Output:-

F	Rank	Name	Industry	Revenue (USD millions)	Revenue growth	Employees	Headquarters
		Walmart	Retail	611,289	6.7%	2,100,000	Bentonville, Arkansas
		Amazon	Retail and cloud computing	513,983	9.4%	1,540,000	Seattle, Washington
		ExxonMobil	Petroleum industry	413,680	44.8%	62,000	Spring, Texas
		Apple	Electronics industry	394,328	7.8%	164,000	Cupertino, California
		UnitedHealth Group	Healthcare	324,162	12.7%	400,000	Minnetonka, Minnesota
5	96	Best Buy	Retail	46,298	10.6%	71,100	Richfield, Minnesota
6	97	Bristol-Myers Squibb	Pharmaceutical industry	46,159	0.5%	34,300	New York City, New York
	98	United Airlines	Airline	44,955	82.5%	92,795	Chicago, Illinois
8	99	Thermo Fisher Scientific	Laboratory instruments	44,915	14.5%	130,000	Waltham, Massachusetts
9	100	Qualcomm	Technology	44,200	31.7%	51,000	San Diego, California
[100 rows x 7 columns]							

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#### Post Lab :-

Task-1:- Collect the data of the top 100 big companies by revenue of USA by selenium

### Code:-

```
import pandas as pd
from selenium import webdriver
url = "https://en.wikipedia.org/wiki/List of largest companies in the United States by revenue"
driver = webdriver.Chrome() # You need to have ChromeDriver installed and in PATH
driver.get(url)
table = driver.find_elements("xpath", "//table")[1]
headers = table.find_elements("xpath", ".//th")
titles = [header.text.strip() for header in headers]
dataset = pd.DataFrame(columns=titles)
rows = table.find_elements("xpath" ,".//tr")[1:]
for row in rows:
  data = row.find elements("xpath", ".//td")
  row data = [cell.text.strip() for cell in data]
  dataset.loc[len(dataset)] = row data
print(dataset)
dataset.to excel("D:/Aryan Data/Usefull Data/Semester - 4/Data Visulization and Dashboards/Lab Manual/Exp-11 Web
Scrapping Using Python/Largest Companies In USA by Revenue by selenium.xlsx", index=False)
print("File Saved")
driver.quit()
```

#### Output:-

```
Web Scrapping Using Python/Web_Scrapping.py'
DevTools listening on ws://127.0.0.1:59137/devtools/browser/3e43ea32-3607-47c2-9723-b9d166d54e7b
                                                  Industry Revenue\n(USD millions) Revenue growth Employees
                                                                                                                     Headquarters
                          Name
                                                                                                             Bentonville, Arkansas
                        Walmart
                                                   Retail
                                                                          611,289
                                                                                          6.7% 2,100,000
                         Amazon Retail and cloud computing
                                                                          513,983
                                                                                          9.4% 1,540,000
                                                                                                             Seattle, Washington
                                  Petroleum industry
                     ExxonMobil
                                                                          413,680
                                                                                          44.8%
                                                                                                   62,000
                                                                                                                    Spring, Texas
                         Apple
                                      Electronics industry
                                                                          394,328
                                                                                          7.8% 164,000
                                                                                                             Cupertino, California
             UnitedHealth Group
                                                                          324,162
                                                                                          12.7%
                                                                                                  400,000
                                                                                                            Minnetonka, Minnesota
95
    96
                       Best Buy
                                                    Retail
                                                                          46,298
                                                                                          10.6%
                                                                                                   71,100
                                                                                                              Richfield, Minnesota
           Bristol-Myers Squibb
96
                                   Pharmaceutical industry
                                                                                          0.5%
                                                                                                   34,300 New York City, New York
                                                                          46,159
    98
               United Airlines
                                                  Airline
                                                                          44,955
                                                                                          82.5%
                                                                                                   92,795
                                                                                                                Chicago, Illinois
       Thermo Fisher Scientific
                                    Laboratory instruments
                                                                           44,915
                                                                                          14.5%
                                                                                                  130,000
                                                                                                            Waltham, Massachusetts
                                                Technology
                                                                           44,200
                                                                                          31.7%
                                                                                                   51,000
                                                                                                            San Diego, California
[100 rows x 7 columns]
File Saved
PS C:\Users\online>
```