q1 !pip install selenium Requirement already satisfied: selenium in c:\users\dell\anaconda3\lib\site-packages (4.8.2) Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (1.26.9) Requirement already satisfied: trio~=0.17 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.22.0) Requirement already satisfied: certifi>=2021.10.8 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (2021.10.8) Requirement already satisfied: trio-websocket~=0.9 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.9.2) Requirement already satisfied: attrs>=19.2.0 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0) Requirement already satisfied: outcome in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0) Requirement already satisfied: cffi>=1.14 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0) Requirement already satisfied: sniffio in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0) Requirement already satisfied: sortedcontainers in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0) Requirement already satisfied: async-generator>=1.9 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10) Requirement already satisfied: idna in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3) Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0) Requirement already satisfied: pycparser in c:\users\dell\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21) Requirement already satisfied: wsproto>=0.14 in c:\users\dell\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0) Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\dell\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1) Requirement already satisfied: h11<1,>=0.9.0 in c:\users\dell\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0) In [1]: **import** selenium import pandas as pd import time from bs4 import BeautifulSoup from selenium import webdriver from selenium.common.exceptions import StaleElementReferenceException import requests import re from selenium .webdriver.common.by import By In [2]: driver = webdriver.Chrome(r'Chromrdriver.exe') C:\Users\DELL\AppData\Local\Temp\ipykernel\_6448\2986479730.py:1: DeprecationWarning: executable\_path has been deprecated, please pass in a Service object driver = webdriver.Chrome(r'Chromrdriver.exe') In [3]: valu= input('enter your name:guitar') enter your name:guitarguitar q2 In [1]: **import** selenium import pandas as pd import time from bs4 import BeautifulSoup from selenium import webdriver from selenium.common.exceptions import StaleElementReferenceException import requests import re from selenium .webdriver.common.by import By In [2]: driver=webdriver.Chrome(r'Chromedriver.exe') C:\Users\DELL\AppData\Local\Temp\ipykernel\_11384\413822959.py:1: DeprecationWarning: executable\_path has been deprecated, please pass in a Service object driver=webdriver.Chrome(r'Chromedriver.exe') driver.get('https://www.amazon.in/') In [4]: | search\_key = driver.find\_element(By.XPATH, '/html/body/div[1]/header/div/div[1]/div[2]/div/form/div[2]/div[1]/input') search\_key.send\_keys('guitars') search\_butten= driver.find\_element(By.XPATH,'/html/body/div[1]/header/div/div[1]/div[2]/div/form/div[3]/div/span/input') search\_butten.click() In [8]: brand\_name = [] start=0 end=3 for page in range(start, end): brand = driver.find\_elements(By.XPATH, '//span[@class="a-size-base-plus a-color-base a-text-normal"]') **for** i **in** brand[0:10]: brand\_name.append(i.text) search\_butten=driver.find\_elements(By.XPATH, '/html/body/div[1]/div[2]/div[1]/div[1]/div/span[1]/div[1]/div[70]/div/span/a[3]') search\_butten time.sleep(2) In [9]: len(brand\_name) Out[9]: In [10]: price\_ = [] start=0 end=3 for page in range(start,end): price = driver.find\_elements(By.XPATH, '//span[@class="a-price-whole"]') **for** i **in** price[0:10]: price\_.append(i.text) next\_button=driver.find\_elements(By.XPATH, '/html/body/div[1]/div[2]/div[1]/div[1]/div/span[1]/div[70]/div/div/span/a[3]') next\_button time.sleep(2)In [11]: len(price\_) Out[11]: expected\_delivery=[] start=0 end=3 for page in range(start,end): expected=driver.find\_elements(By.XPATH, '//span[@class="a-color-base a-text-bold"]') for i in expected[0:10]: expected\_delivery.append(i.text) next\_button=driver.find\_elements(By.XPATH, '/html/body/div[1]/div[2]/div[1]/div[1]/div[5]/div[69]/div/div/span/a[3]') next\_button len(expected\_delivery) Out[13]: product\_url=[] start=0 end=3 for page in range(start,end): url=driver.find\_elements(By.XPATH,'//a[@class="a-link-normal s-no-outline"]') for i in url[0:10]: product\_url.append(i.get\_attribute('href')) next\_button=driver.find\_elements(By.XPATH, '/html/body/div[1]/div[2]/div[1]/div[1]/div/span[1]/div[1]/div[68]/div/span/a[3]') len(product\_url) Out[15]: da=pd.DataFrame({'brand\_name':brand\_name,'price\_':price\_,'expected\_delivery':expected\_delivery,'product\_url':product\_url}) In [18]: Out[18]: brand\_name price\_ expected\_delivery product\_url **0** Kadence Slowhand Premium Jumbo Semi Acoustic G... Friday, 10 March https://www.amazon.in/sspa/click?ie=UTF8&spc=M... https://www.amazon.in/sspa/click?ie=UTF8&spc=M.. Kadence Frontier Jumbo Semi Acoustic Guitar Wi... 5,899 Friday, 10 March 2 Kadence Frontier guitar with Online Guitar lea... 7,399 Thursday, 9 March https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 3 INTERN 40 inches Acoustic Guitar with Pick-up ... 11,999 Thursday, 9 March https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 4 Juârez Acoustic Guitar, 38 Inch Cutaway, 038C ... Thursday, 9 March https://www.amazon.in/Juarez-Acoustic-Cutaway-... 5 https://www.amazon.in/Intern-INT-38C-Acoustic-... Intern INT-38C Right hand Acoustic Guitar Kit,... 5,005 Thursday, 9 March https://www.amazon.in/Yamaha-FSX80C-Acoustic-C... 6 Yamaha FSX80C Semi acoustic cutaway guitar (Bl... 4,999 Saturday, 11 March Friday, 10 March https://www.amazon.in/JUAREZ-JRZ38C-Acoustic-S... 7 Juarez Lindenwood Acoustic Guitar Kit, 38 Inch... 1,899 8 Henrix 38C 38 Inch Cutaway Acoustic Guitar Wit... 1,999 Thursday, 9 March https://www.amazon.in/Henrix-Acoustic-Guitar-D... 9 12,450 Thursday, 9 March Kadence 40 Incheses Frontier Series, wood Acou... https://www.amazon.in/Kadence-Frontier-Acousti... Kadence Slowhand Premium Jumbo Semi Acoustic G... Friday, 10 March https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 10 Friday, 10 March https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 11 Kadence Frontier Jumbo Semi Acoustic Guitar Wi... 5,899 12 Kadence Frontier guitar with Online Guitar lea... Thursday, 9 March https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 7,399 13 INTERN 40 inches Acoustic Guitar with Pick-up ... 11,999 Thursday, 9 March https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 14 Juârez Acoustic Guitar, 38 Inch Cutaway, 038C ... https://www.amazon.in/Juarez-Acoustic-Cutaway-... 6,499 Thursday, 9 March Intern INT-38C Right hand Acoustic Guitar Kit,... 15 5,005 Thursday, 9 March https://www.amazon.in/Intern-INT-38C-Acoustic-... 4,999 Saturday, 11 March https://www.amazon.in/Yamaha-FSX80C-Acoustic-C... 16 Yamaha FSX80C Semi acoustic cutaway guitar (Bl... 17 1,899 Juarez Lindenwood Acoustic Guitar Kit, 38 Inch... Friday, 10 March https://www.amazon.in/JUAREZ-JRZ38C-Acoustic-S... 18 Henrix 38C 38 Inch Cutaway Acoustic Guitar Wit... 1,999 Thursday, 9 March https://www.amazon.in/Henrix-Acoustic-Guitar-D... Kadence 40 Incheses Frontier Series, wood Acou... 12,450 https://www.amazon.in/Kadence-Frontier-Acousti... 19 Thursday, 9 March Kadence Slowhand Premium Jumbo Semi Acoustic G... Friday, 10 March https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 20 Kadence Frontier Jumbo Semi Acoustic Guitar Wi... https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 21 5,899 Friday, 10 March Kadence Frontier guitar with Online Guitar lea... 22 https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 7,399 Thursday, 9 March 23 INTERN 40 inches Acoustic Guitar with Pick-up ... 11,999 Thursday, 9 March https://www.amazon.in/sspa/click?ie=UTF8&spc=M... 24 Juârez Acoustic Guitar, 38 Inch Cutaway, 038C ... https://www.amazon.in/Juarez-Acoustic-Cutaway-... Thursday, 9 March 25 Intern INT-38C Right hand Acoustic Guitar Kit,... 5,005 Thursday, 9 March https://www.amazon.in/Intern-INT-38C-Acoustic-... 26 4,999 Yamaha FSX80C Semi acoustic cutaway guitar (Bl... Saturday, 11 March https://www.amazon.in/Yamaha-FSX80C-Acoustic-C... Juarez Lindenwood Acoustic Guitar Kit, 38 Inch... 1,899 27 Friday, 10 March https://www.amazon.in/JUAREZ-JRZ38C-Acoustic-S... 28 Henrix 38C 38 Inch Cutaway Acoustic Guitar Wit... 1,999 Thursday, 9 March https://www.amazon.in/Henrix-Acoustic-Guitar-D... 29 Kadence 40 Incheses Frontier Series, wood Acou... 12,450 Thursday, 9 March https://www.amazon.in/Kadence-Frontier-Acousti... q3 !pip install selenium !pip install bs4 !pip install requests import requests import selenium from bs4 import BeautifulSoup from selenium import webdriver from selenium.webdriver.common.by import By from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException Requirement already satisfied: selenium in c:\users\dell\anaconda3\lib\site-packages (4.8.2) Requirement already satisfied: trio~=0.17 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.22.0) Requirement already satisfied: trio-websocket~=0.9 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.9.2) Requirement already satisfied: certifi>=2021.10.8 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (2021.10.8) Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (1.26.9) Requirement already satisfied: cffi>=1.14 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0) Requirement already satisfied: sniffio in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0) Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0) Requirement already satisfied: idna in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3) Requirement already satisfied: sortedcontainers in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0) Requirement already satisfied: async-generator>=1.9 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10) Requirement already satisfied: attrs>=19.2.0 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0) Requirement already satisfied: outcome in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0) Requirement already satisfied: pycparser in c:\users\dell\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21) Requirement already satisfied: wsproto>=0.14 in c:\users\dell\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0) Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\dell\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1) Requirement already satisfied: h11<1,>=0.9.0 in c:\users\dell\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0) Requirement already satisfied: bs4 in c:\users\dell\anaconda3\lib\site-packages (0.0.1) Requirement already satisfied: beautifulsoup4 in c:\users\dell\anaconda3\lib\site-packages (from bs4) (4.11.1) Requirement already satisfied: soupsieve>1.2 in c:\users\dell\anaconda3\lib\site-packages (from beautifulsoup4->bs4) (2.3.1) Requirement already satisfied: requests in c:\users\dell\anaconda3\lib\site-packages (2.27.1) Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\dell\anaconda3\lib\site-packages (from requests) (1.26.9) Requirement already satisfied: charset-normalizer~=2.0.0 in c:\users\dell\anaconda3\lib\site-packages (from requests) (2.0.4) Requirement already satisfied: certifi>=2017.4.17 in c:\users\dell\anaconda3\lib\site-packages (from requests) (2021.10.8) Requirement already satisfied: idna<4,>=2.5 in c:\users\dell\anaconda3\lib\site-packages (from requests) (3.3) In [2]: driver = webdriver.Chrome(r'Chromedriver.exe') C:\Users\DELL\AppData\Local\Temp\ipykernel\_1500\614866241.py:1: DeprecationWarning: executable\_path has been deprecated, please pass in a Service object driver = webdriver.Chrome(r'Chromedriver.exe') driver.get('https://images.google.com/?gws\_rd=ssl') In [4]: search\_key=driver.find\_element(By.XPATH,'/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/div[2]/input') search\_button=driver.find\_element(By.XPATH, '/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/button/div/span/svg') k= input('enter any name = ') In [8]: search\_key.send\_keys(k) search\_button.click() enter any name = cakes In [9]: **for** \_ **in** range(20): driver.execute\_script('window.scrollBy(0,100)') In [12]: img\_url =[] images=driver.find\_elements(By.XPATH, '/html/body/div[2]/c-wiz/div[3]/div[1]/div/div/div/div[2]/div[1]/div[1]/span/div[1]/div[1]/div[27]/a[1]/div[1]/img') **for** image in images: source=image.get\_attribute('src') if source is not None: **if**(source[0:4]=='http'): img\_urls.append(source) for i in range(len(img\_url)): **if** i>10: break print("downloading{0} of {1} images".formate(i,10)) response=requests.get(img\_urls[i]) file = open(r'c:\users\windos\newfile'+str(i)+'.jpg','wb') file.write(response.content) q4 In [1]: import selenium import pandas as pd import time from bs4 import BeautifulSoup from selenium import webdriver from selenium.common.exceptions import StaleElementReferenceException import requests import re from selenium .webdriver.common.by import By driver = webdriver.Chrome(r'Chromedriver.exe') C:\Users\DELL\AppData\Local\Temp\ipykernel\_3204\614866241.py:1: DeprecationWarning: executable\_path has been deprecated, please pass in a Service object driver = webdriver.Chrome(r'Chromedriver.exe') In [84]: driver.get('https://www.flipkart.com/') In [85]: search\_field=driver.find\_element(By.XPATH,'/html/body/div[1]/div[1]/div[1]/div[2]/form/div/div/input') search\_field.send\_keys('oneplus') In [86]: brand\_name=[] start=0 end=2 for page in range(start,end):  $brand=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[2]/div/div/a/div[2]/div[1]/div[1]')$ **for** i **in** brand[0:10]: brand\_name.append(i.text) next\_page=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[26]/div/div/nav/a[7]/span') time.sleep(2) brand\_name.append('-') In [87]: len(brand\_name) Out[87]: In [91]: ram\_=[] start=0 end=2 for page in range(start,end): ram=driver.find\_elements(By.XPATH,'/html/body/div[1]/div/div[3]/div[1]/div[2]/div[2]/div/div/div/div/a/div[2]/div[1]/div[3]/ul/li[1]') **for** i **in** ram[0:10]: ram\_.append(i.text) next\_page=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[26]/div/div/nav/a[7]/span') next\_page ram\_.append('-') In [92]: len(ram\_) Out[92]: In [93]: | display\_=[] start=0 end=2 for page in range(start,end): display=driver.find\_elements(By.XPATH, '/html/body/div[1]/div[3]/div[1]/div[2]/div[2]/div/div/div/a/div[2]/div[1]/div[3]/ul/li[2]') for i in display[0:10]: display\_.append(i.text) next\_page=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[26]/div/div/nav/a[7]/span') next\_page display\_.append('-') In [94]: len(display\_) Out[94]: In [95]: camera\_=[] start=0 end=2 for page in range(start,end): camera=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[2]/div/div/div/a/div[2]/div[1]/div[3]/ul/li[3]') **for** i **in** camera[0:10]: camera\_.append(i.text) next\_page=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[26]/div/div/nav/a[7]/span') next\_page camera\_.append('-') In [97]: |len(camera\_) Out[97]: In [98]: | battry\_=[] start=0 end=2 for page in range(start,end):  $battry = driver.find\_elements(By.XPATH, '/html/body/div[1]/div[3]/div[1]/div[2]/div[2]/div/div/div/a/div[2]/div[1]/div[3]/ul/li[4]')$ **for** i **in** battry[0:10]: battry\_.append(i.text) next\_page=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[26]/div/div/nav/a[7]/span') next\_page battry\_.append('-') In [99]: len(battry\_) Out[99]: In [100... | price\_=[] start=0 end=2 for page in range(start,end): price=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[2]/div/div/a/div/a/div[2]/div[2]/div[1]/div[1]') for i in price[0:10]: price\_.append(i.text) next\_page=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[26]/div/div/nav/a[7]/span') next\_page price\_.append('-') In [101... | len(price\_) Out[101]: In [102... product\_url=[] start=0 end=1 for page in range(start,end): url=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[2]/div/div/div/a') **for** i **in** url[0:10]: product\_url.append(i.get\_attribute('href')) next\_page=driver.find\_elements(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[26]/div/div/nav/a[7]/span') next\_page product\_url.append('-') In [103... len(product\_url) Out[103]: In [104... df=pd.DataFrame({'brand\_name':brand\_name,'ram\_':ram\_,'display\_':display,'camera\_':camera,'battry\_':battry,'price\_':price,'product\_url':url}) brand\_name ram\_ display\_ camera\_ battry\_ price\_ product\_url Out[104]: q5 import selenium import pandas as pd import time from bs4 import BeautifulSoup from selenium import webdriver from selenium.common.exceptions import StaleElementReferenceException import requests import re from selenium .webdriver.common.by import By driver=webdriver.Chrome(r') de import selenium import pandas as pd import time from bs4 import BeautifulSoup from selenium import webdriver from selenium.common.exceptions import StaleElementReferenceException import requests import re from selenium .webdriver.common.by import By In [10]: driver = webdriver.Chrome(r'Chromedriver.exe') C:\Users\DELL\AppData\Local\Temp\ipykernel\_2592\614866241.py:1: DeprecationWarning: executable\_path has been deprecated, please pass in a Service object driver = webdriver.Chrome(r'Chromedriver.exe') driver.get('https://www.digit.in/') gameing=driver.find\_element(By.XPATH,'//a[@class="arrow\_down gaming"]') gameing.click() best\_gameing=driver.find\_element(By.XPATH,'/html/body/div[2]/div/ul/li[5]/div[2]/div/div[2]/div/ul[3]/li[4]/a') In [18]: best\_gameing.click() auses=driver.find\_element(By.XPATH, '/html/body/div[3]/div/div[2]/div[2]/span/a/img') auses.click() Auses=[] auses=driver.find\_elements(By.XPATH,'//h3[@class="ga-not-fired"]') for i in auses: Auses.append(i.text) len(Auses) Out[21]: In [24]: dg=pd.DataFrame(Auses) In [25]: dg Out[25]: 0 0 01. Acer Aspire 5 Gaming 02. MSI GF63 Thin 2 03. Mi Notebook 14 Horizon Gray 04. Lenovo IdeaPad 3 05. HP Pavilion Gaming Laptop q7 !pip install selenium !pip install bs4 !pip install requests import requests import selenium from bs4 import BeautifulSoup from selenium import webdriver from selenium.webdriver.common.by import By from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException Requirement already satisfied: selenium in c:\users\dell\anaconda3\lib\site-packages (4.8.2) Requirement already satisfied: certifi>=2021.10.8 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (2021.10.8) Requirement already satisfied: trio-websocket~=0.9 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.9.2) Requirement already satisfied: trio~=0.17 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.22.0) Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (1.26.9) Requirement already satisfied: idna in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3) Requirement already satisfied: attrs>=19.2.0 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0) Requirement already satisfied: cffi>=1.14 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0) Requirement already satisfied: async-generator>=1.9 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10) Requirement already satisfied: outcome in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0) Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0) Requirement already satisfied: sniffio in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0) Requirement already satisfied: sortedcontainers in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0) Requirement already satisfied: pycparser in c:\users\dell\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21) Requirement already satisfied: wsproto>=0.14 in c:\users\dell\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0) Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\dell\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1) Requirement already satisfied: h11<1,>=0.9.0 in c:\users\dell\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0) Requirement already satisfied: bs4 in c:\users\dell\anaconda3\lib\site-packages (0.0.1) Requirement already satisfied: beautifulsoup4 in c:\users\dell\anaconda3\lib\site-packages (from bs4) (4.11.1) Requirement already satisfied: soupsieve>1.2 in c:\users\dell\anaconda3\lib\site-packages (from beautifulsoup4->bs4) (2.3.1) Requirement already satisfied: requests in c:\users\dell\anaconda3\lib\site-packages (2.27.1) Requirement already satisfied: idna<4,>=2.5 in c:\users\dell\anaconda3\lib\site-packages (from requests) (3.3) Requirement already satisfied: charset-normalizer  $\sim = 2.0.0$  in c:\users\dell\anaconda3\lib\site-packages (from requests) (2.0.4) Requirement already satisfied: certifi>=2017.4.17 in c:\users\dell\anaconda3\lib\site-packages (from requests) (2021.10.8) Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\dell\anaconda3\lib\site-packages (from requests) (1.26.9) driver=webdriver.Chrome(r'Chromedriver.exe') C:\Users\DELL\AppData\Local\Temp\ipykernel\_2592\413822959.py:1: DeprecationWarning: executable\_path has been deprecated, please pass in a Service object driver=webdriver.Chrome(r'Chromedriver.exe') driver.get("https:/www.forbes.com/?sh=6164a7032254") In [30]: dash\_board=driver.find\_element(By.XPATH,'//div[@class="\_8FT-x3t4"]') In [34]: dash\_board.click() bil=driver.find\_element(By.XPATH, '//div[@class="mpBfVZz3"]') bil.click() In [ ] In [48]: all\_bi=driver.find\_element(By.XPATH, '/html/body/div[1]/header/nav/div[1]/div/div/div[2]/ul/li[1]/div[3]/ul/li[1]/a') all\_bi.click() In [51]: Name=[] Rank = []Net\_worth=[] Age=[] Citizen=[] Source=[] name=driver.find\_elements(By.XPATH, '//div[@class="personName"]') **for** i in name: Name.append(i.text) rank=driver.find\_elements(By.XPATH, '//div[@class="rank"]') **for** i **in** rank: Rank.append(i.text) net=driver.find\_elements(By.XPATH, '//div[@class="netWorth"]') for i in net: Net\_worth.append(i.text) age=driver.find\_elements(By.XPATH, '//div[@class="age"]') for i in age: Age.append(i.text) citi=driver.find\_elements(By.XPATH,'//div[@class="countryOfCitizenship"]') for i in citi: Citizen.append(i.text) source=driver.find\_elements(By.XPATH,'//div[@class="source"]') Source.append(i.text) In [52]: | print(len(Name), len(Rank), len(Net\_worth), len(Age), len(Citizen), len(Source)) 200 200 200 200 200 200 dt=pd.DataFrame({'Name':Name,'Rank':Rank,'Net\_worth':Net\_worth,'Age':Age,'Citizen':Citizen,'Source':Source}) Rank Net\_worth Age Citizen Source Out[54]: Name 0 Elon Musk **United States** 1. \$219 B Tesla, SpaceX Jeff Bezos 2. \$171 B **United States** Amazon 2 Bernard Arnault & family 3. \$158 B France LVMH 3 Bill Gates \$129 B **United States** Microsoft 4. 5. \$118 B **United States** Berkshire Hathaway 4 Warren Buffett 192. \$10.3 B 195 Marcel Herrmann Telles Brazil beer Leon Black private equity 196 197. \$10 B **United States** 197 Joe Gebbia \$10 B **United States** 197. Airbnb 198 David Geffen 197. \$10 B United States movies, record labels \$10 B semiconductors 199 Yu Renrong 197. China 200 rows × 6 columns 8 !pip install selenium !pip install bs4 !pip install requests import requests import selenium from bs4 import BeautifulSoup from selenium import webdriver from selenium.webdriver.common.by import By from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException Requirement already satisfied: selenium in c:\users\dell\anaconda3\lib\site-packages (4.8.2) Requirement already satisfied: trio~=0.17 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.22.0) Requirement already satisfied: certifi>=2021.10.8 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (2021.10.8) Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (1.26.9) Requirement already satisfied: trio-websocket~=0.9 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.9.2) Requirement already satisfied: cffi>=1.14 in c:\users\dell\anaconda3\lib\site-packages (from 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c:\users\dell\anaconda3\lib\site-packages (from requests) (2.0.4) Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\dell\anaconda3\lib\site-packages (from requests) (1.26.9) Requirement already satisfied: certifi>=2017.4.17 in c:\users\dell\anaconda3\lib\site-packages (from requests) (2021.10.8) Requirement already satisfied: idna<4,>=2.5 in c:\users\dell\anaconda3\lib\site-packages (from requests) (3.3) In [32]: driver=webdriver.Chrome(r'Chromedriver.exe') C:\Users\DELL\AppData\Local\Temp\ipykernel\_3156\413822959.py:1: DeprecationWarning: executable\_path has been deprecated, please pass in a Service object driver=webdriver.Chrome(r'Chromedriver.exe') driver.get('https://www.youtube.com/') you\_tube=driver.find\_element(By.XPATH, '/html/body/ytd-app/div[1]/ytd-page-manager/ytd-browse/ytd-two-column-browse-results-renderer/div[1]/ytd-rich-grid-renderer/div[6]/ytd-renderer/div[6]/ytd-renderer/div vou\_tube.click() In [37]: search=driver.find\_element(By.XPATH, '/html/body/ytd-app/div[1]/div/ytd-masthead/div[4]/div[2]/ytd-searchbox/form/div[1]/div[1]/input') search.send\_keys('amma song') In [38]: s=driver.find\_element(By.XPATH, '/html/body/ytd-app/div[1]/div/ytd-masthead/div[4]/div[2]/ytd-searchbox/button/yt-icon') s.click() song=driver.find\_element(By.XPATH,'/html/body/ytd-app/div[1]/ytd-page-manager/ytd-search/div[1]/ytd-two-column-search-results-renderer/div/ytd-section-list-renderer/div[2]/ytd-item song.click() In [40]: **for** \_ **in** range(500): driver.execute\_script("window.scrollBy(0,500)") Comments=[] In [41]: comments=driver.find\_elements(By.CLASS\_NAME, 'style-scope ytd-comment-renderer') for i in comments[0:500]: Comments.append(i.text) len(Comments) 500 Out[42]: In [43]: **import** pandas **as** pd ds=pd.DataFrame({'Comments':Comments}) ds Comments Out[43]: 0 Mahesh Alijala\n1 year ago\nఈ సాంగు వింటూ వింట... 1 Madhavee's Kitchen\n1 year ago (edited)\nఅమ్మ ... 2 Santhosh Kumar\n1 year ago\nఅమ్మ అంటే వన్ అండ్... 3 Yermani Swamy\n9 months ago\nమా అమ్మ 17.04.202... 4 Dr K Jagadeesh Babu\n1 year ago\nI lost my mot... 495 Hanamantgoud Patil\n1 year ago\nE song yavagid... MANOHAR VEJANDLA\n2 years ago\nNow I am 26 yea... 496 497 Arun Kumar\n1 year ago\nRecently my mother pas... 498 Mohd Imthiyaz\n3 years ago\nI love these song ... 499 chaitanya reddi\n1 year ago\nMy favourite song... 500 rows × 1 columns q9 In [106... !pip install selenium !pip install bs4 !pip install requests import requests import selenium from bs4 import BeautifulSoup from selenium import webdriver from selenium.webdriver.common.by import By from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException Requirement already satisfied: selenium in c:\users\dell\anaconda3\lib\site-packages (4.8.2) Requirement already satisfied: trio~=0.17 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.22.0) Requirement already satisfied: certifi>=2021.10.8 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (2021.10.8) Requirement already satisfied: trio-websocket~=0.9 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.9.2) Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (1.26.9) Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0) Requirement already satisfied: async-generator>=1.9 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10) Requirement already satisfied: attrs>=19.2.0 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0) Requirement already satisfied: idna in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3) Requirement already satisfied: sniffio in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0) Requirement already satisfied: cffi>=1.14 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0) Requirement already satisfied: outcome in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0) Requirement already satisfied: sortedcontainers in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0) Requirement already satisfied: pycparser in c:\users\dell\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21) Requirement already satisfied: wsproto>=0.14 in c:\users\dell\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.2.0) Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\dell\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1) Requirement already satisfied: h11<1,>=0.9.0 in c:\users\dell\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0) Requirement already satisfied: bs4 in c:\users\dell\anaconda3\lib\site-packages (0.0.1) Requirement already satisfied: beautifulsoup4 in c:\users\dell\anaconda3\lib\site-packages (from bs4) (4.11.1) Requirement already satisfied: soupsieve>1.2 in c:\users\dell\anaconda3\lib\site-packages (from beautifulsoup4->bs4) (2.3.1) Requirement already satisfied: requests in c:\users\dell\anaconda3\lib\site-packages (2.27.1) Requirement already satisfied: charset-normalizer~=2.0.0 in c:\users\dell\anaconda3\lib\site-packages (from requests) (2.0.4) Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\dell\anaconda3\lib\site-packages (from requests) (1.26.9) Requirement already satisfied: idna<4,>=2.5 in c:\users\dell\anaconda3\lib\site-packages (from requests) (3.3) Requirement already satisfied: certifi>=2017.4.17 in c:\users\dell\anaconda3\lib\site-packages (from requests) (2021.10.8) \_\_\_\_\_\_ ModuleNotFoundError Traceback (most recent call last) Input In [106], in <cell line: 9>() 7 from selenium import webdriver 8 from selenium.webdriver.common.by import By ----> 9 from selenium.common.Exception import StaleElementRerenceException, NoSuchElementException ModuleNotFoundError: No module named 'selenium.common.Exception' driver=webdriver.Chrome(r'Chromedriver.exe') In [107... C:\Users\DELL\AppData\Local\Temp\ipykernel\_3204\413822959.py:1: DeprecationWarning: executable\_path has been deprecated, please pass in a Service object driver=webdriver.Chrome(r'Chromedriver.exe') driver.get('https://www.hostelworld.com/') menu=driver.find\_element(By.XPATH,'/html/body/div[3]/div/div/div[2]/div[2]/div/div/div[1]/header/div/button[2]') In [109... menu.click() hostel=driver.find\_element(By.XPATH,'/html/body/div[3]/div/div[2]/div[2]/div/div/div[1]/header/div[2]/div/div[2]/li[2]/a') In [110... hostel.click() city=driver.find\_element(By.XPATH, '/html/body/div[3]/div/div[3]/div/div[1]/div/div/div[1]/div/div/div/label/input') city.send\_keys('Landon')