```
In [1]:
        import time
        import os
        import json
        import sys
        import csv
        import pandas as pd
        from selenium import webdriver
        from selenium.webdriver.chrome.service import Service
        from selenium.webdriver.common.by import By
        from selenium.webdriver.chrome.options import Options
In [2]:
        zipsTop500 = [
            94123, 19104, 77494,90011, 75034,60629,11211,
            77449,75070,79936,11368,77084,11385,90650,8701,91331,11208,78660,10467,9
            92335,37013,11236,92336,94565,11373,11226,77479,90250,90805,90280,60618,
            29483,77573,11207,92683,11220,77429,91710,10456,11214,11234,10314,92154,
            11206, 11230, 75217, 92376, 60632, 93307, 92592, 92704, 10458, 93722, 11746, 33027,
            60647, 11221, 94112, 93033, 93727, 95076, 78613, 92345, 91744, 79938, 92126, 91709,
            78666,99301,60804,11355,27610,91335,95823,78542,37042,30024,11223,75035,
            28269, 10453, 60625, 76244, 10468, 47906, 78577, 94533, 78641, 94544, 77083, 75211,
            76063,91706,78245,90706,96706,92105,11204,77450,33311,33024,94080,84015
            30349,93550,60634,93257,10462,95035,75228,89108,37211,93274,94587,63376,
            33012,92805,33411,94536,10466,90255,10452,10002,93306,80013,19120,97701,
            75002,84095,85364,27587,11218,85032,33025,22191,30040,94110,34953,11375,
            93065,97007,19124,80219,30041,78046,30127,60505,97229,92563,60085,91766,
            60641,30281,98012,95123,11215,32828,92114,7055,85204,85225,87114,60640,2
            85301,77036,20002,30022,95687,76179,89031,78596,93230,60620,77845,90631,
            11209, 37075, 75243, 83646, 7087, 10472, 78045, 23462, 33015, 92407, 30135, 90026, 1
            92703,89115,89121,94541,99654,90022,30331,95758,78251,32218,85308,20019,
            23322,94015,92562,7002,17603,77072,60628,92201,38401,29681,11201,10027,1
            84404,14850,29072,33463,7093,46307,32822,28078,2301,30062,20147,30188,91
            60651,78664,94806,20878,95020,44256,43026,85326,40475,92346,78745, 60657
            91977,92404,95127,44035,91770,11372,85008,89123,78574,78250,33313,19143,
            75043,42101,92707,11434,90660,32210,92627,92504,11210,77373,79928,95608,
            75150,60073,74012,80634,78249,93905,19134,75040,95014,92647,91702,78228,
            34711,95111,78504,7047,37167,48180,78254,10312,90004,91732,53215,32818,3
            2148,77521,75227,34744, 29445,95051,93312,92057,28314,95828,33458,72401,
            956,60609,2155,37129,90042,33414,32808,83709,29485,92570,33125,78501,100
            77375,72712,85122,6010,37128,78753,76137,95112,33064,96818,44060,43230,9
            22192,21122,21117,60016
        zipsShortList = zipsTop500[0:8]
In [3]:
        company_names = [
            'ulla johnson',
            #'mark cross',
            #'le specs',
            #'il audio',
            #'obey clothing',
            #'roc skin care',
            #'hurley'
```

```
#searhBar = browser.find element(By.CLASS NAME, 'gLFyf')
        url base = 'https://www.google.com/search?g='
In [4]: chrome options = Options()
        chrome options.add argument("--headless") # Ensure GUI is off
        chrome_options.add_argument("--no-sandbox")
        browser = webdriver.Chrome(options=chrome_options) #Chrome() Safari
In [5]: resultsList = []
        for zipcode in zipsTop500:
            for company in company names:
                current combo = str(company.replace(" ", '+'))+'+'+str(zipcode)
                #print(current combo)
                browser.get(url base+current combo) #Get the link
                for i in range(0,2):
                    browser.execute_script("window.scrollTo(0,document.body.scrollHe
                    time.sleep(3)
                    #print('scrolling...')
                    try:
                        more = browser.find element(By.CLASS NAME, 'RVQdVd')
                        more.click()
                        #print('load more click!')
                    except:
                        pass
                        #print('pass', current_combo, ' - ', i)
                print("~done scrolling~")
                results = browser.find_elements(By.CLASS_NAME, 'yuRUbf')
                print(current combo + ' - ', str(len(results)))
                for idx, blueLink in enumerate(results, 1):
                    resultInfo = {}
                    resultInfo['pageRank'] = idx
                    resultInfo['zipcode'] = zipcode
                    resultInfo['search combo'] = current combo
                    resultInfo['company'] = company
                    resultInfo['link'] = blueLink.find element(By.TAG NAME, 'a').get
                    resultInfo['link name'] = blueLink.find element(By.TAG NAME, 'a'
                    try:
                        resultInfo['link_website'] = blueLink.find_element(By.TAG_NA
                    except:
                        pass
                    resultsList.append(resultInfo)
                browser.quit()
                browser = webdriver.Chrome(options=chrome options)
                #browser.get('https://www.espn.com/')
                #browser.get('https://www.reddit.com/')
                #browser.get('https://en.wikipedia.org/wiki/Taylor Swift')
```

time.sleep(5)

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```
Traceback (most recent call last)
WebDriverException
Cell In[5], line 8
      5 current combo = str(company.replace(" ", '+'))+'+'+str(zipcode)
      6 #print(current combo)
 ---> 8 browser.get(url_base+current_combo) #Get the link
     10 for i in range(0,2):
             browser.execute script("window.scrollTo(0,document.body.scrollH
eight)")
File ~/seleniumTesting/venv/lib/python3.11/site-packages/selenium/webdrive
r/remote/webdriver.py:449, in WebDriver.get(self, url)
    447 def get(self, url: str) -> None:
             """Loads a web page in the current browser session."""
    448
--> 449
            self.execute(Command.GET, {"url": url})
File ~/seleniumTesting/venv/lib/python3.11/site-packages/selenium/webdrive
r/remote/webdriver.py:440, in WebDriver.execute(self, driver_command, param
s)
    438 response = self.command executor.execute(driver command, params)
    439 if response:
            self.error handler.check response(response)
--> 440
             response["value"] = self. unwrap value(response.get("value", No
    441
ne))
    442
            return response
File ~/seleniumTesting/venv/lib/python3.11/site-packages/selenium/webdrive
r/remote/errorhandler.py:245, in ErrorHandler.check_response(self, respons
e)
    243
                 alert text = value["alert"].get("text")
    244
            raise exception_class(message, screen, stacktrace, alert_text)
# type: ignore[call-arg] # mypy is not smart enough here
--> 245 raise exception class(message, screen, stacktrace)
WebDriverException: Message: disconnected: not connected to DevTools
  (failed to check if window was closed: disconnected: not connected to Dev
Tools)
  (Session info: headless chrome=111.0.5563.110)
Stacktrace:
    chromedriver
                                           0 \times 0000000102 \text{fb} 1428 \text{ chromedriver} + 4
899880
   chromedriver
                                           0 \times 0000000102 f2 ea23 chromedriver + 4
364835
    chromedriver
                                           0 \times 0000000102 b78 bf6 chromedriver + 4
74102
    chromedriver
                                           0 \times 0000000102b603c4 chromedriver + 3
73700
    chromedriver
                                           0 \times 0000000102 b60133 chromedriver + 3
73043
                                           0 \times 0000000102 b7a782 chromedriver + 4
    chromedriver
81154
   chromedriver
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016446
                                           0 \times 0000000102 \text{be} 2333 \text{ chromedriver} + 9
7
    chromedriver
06035
    chromedriver
                                           0 \times 0000000102bac55f chromedriver + 6
```

```
85407
                                              0 \times 0000000102 bada7e chromedriver + 6
    chromedriver
90814
                                              0 \times 0000000102 f7 e79 e chromedriver + 4
10 chromedriver
691870
11 chromedriver
                                              0 \times 0000000102f83961 chromedriver + 4
712801
12 chromedriver
                                              0 \times 0000000102f8a2ff chromedriver + 4
739839
13 chromedriver
                                              0 \times 0000000102 f8485 a chromedriver + 4
716634
                                              0 \times 0000000102f56fce chromedriver + 4
14 chromedriver
530126
                                              0 \times 0000000102 fa45c8 chromedriver + 4
15 chromedriver
847048
16 chromedriver
                                              0 \times 0000000102  fa 4747 chromed river + 4
847431
17 chromedriver
                                              0 \times 0000000102 \text{fb} 987 \text{f chromedriver} + 4
933759
18 libsystem_pthread.dylib
                                              0 \times 00007 ff 807 aaf 259 _pthread_start +
125
19 libsystem_pthread.dylib
                                              0x00007ff807aaac7b thread_start + 1
5
```

```
In [11]: print(len(resultsList))
#count unique values in list column python TO SEE HOW MANY ZIPS IT GOT THROU

df = pd.DataFrame(resultsList)
    df.to_csv("select7_allzips.csv", index = False)
```

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