In [1]:
```
!pip install selenium
```

```
Defaulting to user installation because normal site-packages is not writeable
Collecting selenium
  Downloading selenium-4.4.3-py3-none-any.whl (985 kB)
Requirement already satisfied: certifi>=2021.10.8 in c:\programdata\anaconda3\lib\site-packages (from selenium) (2021.10.8)
Requirement already satisfied: urllib3[socks]~=1.26 in c:\programdata\anaconda3\lib\site-packages (from selenium) (1.26.9)
Collecting trio-websocket~=0.9
  Downloading trio_websocket-0.9.2-py3-none-any.whl (16 kB)
Collecting trio~=0.17
  Downloading trio-0.21.0-py3-none-any.whl (358 kB)
Collecting outcome
  Downloading outcome-1.2.0-py2.py3-none-any.whl (9.7 kB)
Requirement already satisfied: idna in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->selenium) (3.3)
Requirement already satisfied: sniffio in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: cffi>=1.14 in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.15.0)
Requirement already satisfied: attrs>=19.2.0 in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->selenium) (21.4.0)
Requirement already satisfied: sortedcontainers in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.4.0)
Collecting async-generator>=1.9
  Downloading async_generator-1.10-py3-none-any.whl (18 kB)
Requirement already satisfied: pycparser in c:\programdata\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
Collecting wsproto>=0.14
  Downloading wsproto-1.1.0-py3-none-any.whl (24 kB)
Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\programdata\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->selenium) (1.7.1)
Collecting h11<1,>=0.9.0
  Downloading h11-0.13.0-py3-none-any.whl (58 kB)
Installing collected packages: outcome, h11, async-generator, wsproto, trio, trio-websocket, selenium
Successfully installed async-generator-1.10 h11-0.13.0 outcome-1.2.0 selenium-4.4.3 trio-0.21.0 trio-websocket-0.9.2 wsproto-1.1.0
```

In [1]:
```python
import selenium
import pandas as pd
from selenium import webdriver
import warnings
warnings.filterwarnings('ignore')
from selenium.webdriver.common.by import By
import time
```

In [2]:
```python
#lets first connect to the web driver
driver = webdriver.Chrome(r"C:\Users\Meenakshi\Downloads\chromedriver_win32\chromedriver.exe")
```

Q1: Write a python program to scrape data for "Data Analyst" Job position in "Bangalore" location. You have to scrape the job-title, job-location, company_name, experience_required. You have to scrape first 10 jobs data

In [16]:
```python
driver.get(' https://www.naukri.com/ ')
```

In [74]:
```python
#finding element for designation and location
designation = driver.find_element(By.CLASS_NAME,'suggestor-input')
designation.send_keys('Data Analyst')
```

In [75]:
```python
location=driver.find_element(By.XPATH, "/html/body/div[1]/div[2]/div[3]/div/div/div/div[5]/div/div/div/input")
location.send_keys("Banglore")
```

In [76]:
```python
search=driver.find_element(By.CLASS_NAME,'qsbSubmit')
search.click()
```

In [124]:
```python
job_title=[]
job_location=[]
company_name=[]
experience_required=[]
```

In [125]:
```python
#so lets extract data having the job title
title_tags=driver.find_elements(By.XPATH,'//a[@class="title fw500 ellipsis"]')
for i in title_tags[0:10]:
    title=i.text
    job_title.append(title)

#so lets extract all the data having the job location
location_tags=driver.find_elements(By.XPATH,'//li[@class="fleft grey-text br2 placeHolderLi location"]')
for i in location_tags[0:10]:
    location=i.text
    job_location.append(location)

#so lets extract all the data having the names company
company_tags=driver.find_elements(By.XPATH,'//a[@class="subTitle ellipsis fleft"]')
for i in company_tags[0:10]:
        company= i.text
        company_name.append(company)

 # so lets extract the experience required data
experience_tags=driver.find_elements(By.XPATH,'//li[@class="fleft grey-text br2 placeHolderLi experience"]')
for i in experience_tags[0:10]:
    experience=i.text
    experience_required.append(experience)
```

In [126]:
```python
print(len(job_title),len(job_location),len(company_name),len(experience_required))
```

```
10 10 10 10
```

In [127]:
```python
df=pd.DataFrame({'job_title':job_title,'job_location':job_location,'company_name':company_name,'experience_required':experience_required})
df
```

Out[127]:

	job_title	job_location	company_name	experience_required
0	Senior Data Analyst	Bangalore/Bengaluru(Old Madras Road)	KrazyBee	3-6 Yrs
1	Senior Data Analyst	Bangalore/Bengaluru	Qualitest India Private Limited	5-8 Yrs
2	Sr. Data Analyst	Pune, Bangalore/Bengaluru	Global Indian School Education Services	6-11 Yrs
3	Master Data Management Business Analyst	Bangalore/Bengaluru	Accenture	6-8 Yrs
4	Senior Data Analyst	Bangalore/Bengaluru	Optum	5-7 Yrs
5	Intern Data Analyst	Bangalore/Bengaluru	FullStackTechies	0-1 Yrs
6	Data Analyst - Python/Artificial Intelligence	Mumbai, Hyderabad/Secunderabad, Pune, Chennai,...	iMindYourBusiness	0-2 Yrs
7	Lead Data Analyst	Bangalore/Bengaluru	McAfee	5-9 Yrs
8	Data Analyst	Ahmedabad, Bangalore/Bengaluru	milestone internet marketing pvt ltd	2-7 Yrs
9	Data Analyst	Bangalore/Bengaluru	Bayer	2-5 Yrs

Q2: Write a python program to scrape data for "Data Scientist" Job position in "Bangalore" location. You have to scrape the job-title, job-location, company_name. You have to scrape first 10 jobs data

In [6]:
```python
driver.get(' https://www.naukri.com/ ')
```

In [11]:
```python
#finding element for designation and location
designation = driver.find_element(By.CLASS_NAME,'suggestor-input ')
designation.send_keys('Data Scientist')
```

In [12]:
```python
location=driver.find_element(By.XPATH, "/html/body/div[1]/div[2]/div[3]/div/div/div/div[5]/div/div/div/input")
location.send_keys("Banglore")
```

In [13]:
```python
search=driver.find_element(By.CLASS_NAME,'qsbSubmit')
search.click()
```

In [14]:
```python
job_title= []
job_location=[]
company_name= []
```

In [87]:
```python
#so lets extract data having the job title
title_tags=driver.find_elements(By.XPATH,'//a[@class="title fw500 ellipsis"]')
for i in title_tags[0:10]:
    title=i.text
    job_title.append(title)

#so lets extract the data having the job location
location_tags=driver.find_elements(By.XPATH,'//li[@class="fleft grey-text br2 placeHolderLi location"]')
for i in location_tags[0:10]:
    location=i.text
    job_location.append(location)

#so lets extract all the data having the names company
company_tags=driver.find_elements(By.XPATH,'//a[@class="subTitle ellipsis fleft"]')
for i in company_tags[0:10]:
        company= i.text
        company_name.append(company)
```

In [25]:
```python
print(len(job_title),len(job_location),len(company_name))
```

```
10 10 10
```

In [26]:
```python
df=pd.DataFrame({'job_title':job_title,'job_location':job_location,'company_name':company_name})
df
```

Out[26]:

	job_title	job_location	company_name
0	Senior Manager - EmTech - Machine Learning - P&T	Bangalore/Bengaluru, Mumbai, Hyderabad/Secunde...	PwC
1	Analytics & Modeling Specialist	Bangalore/Bengaluru, Kolkata, Mumbai, Hyderaba...	Accenture
2	Data scientist _Tata Consultancy Services(Tcs)	Bangalore/Bengaluru, Kochi/Cochin, Indore, New...	TATA CONSULTANCY SERVICES (TCS)
3	Job||Job Opening For AI Technologist - Data Sc...	Bangalore/Bengaluru, New Delhi, Hyderabad/Secu...	Wipro
4	Hiring For DATA Scientist @ NTT DATA Business ...	Bangalore/Bengaluru, Noida, Hyderabad/Secunder...	NTT DATA Business Solutions Private Limited
5	Tcs Hiring For Data Scientist	Bangalore/Bengaluru, Chennai, Mumbai (All Areas)	TATA CONSULTANCY SERVICES (TCS)
6	Urgent Job Opening For AI Practitioner - Data ...	Bangalore/Bengaluru, Kochi/Cochin, New Delhi, ...	Wipro
7	Data Scientist Python	Bangalore/Bengaluru, Hyderabad/Secunderabad	Conduent
8	Assistant Manager - Data Science	Bangalore/Bengaluru, Mumbai, Pune	CitiusTech
9	Data Scientist	Bangalore/Bengaluru, New Delhi, Pune, Gurgaon/...	ZS Associates

Question-3 you have to scrape data using the filters Web scrapping from Naukri.com

In [17]:
```python
#finding element for job designation
designation = driver.find_element(By.CLASS_NAME,'suggestor-input')
designation.send_keys('Data Scientist')
```

In [18]:
```python
search=driver.find_element(By.CLASS_NAME,'qsbSubmit')
search.click()
```

In [29]:
```python
#clicking element for job e location and salary
location=driver.find_element(By.XPATH,"//span[@title='Delhi / NCR']").click()
```

In [33]:
```python
salary=driver.find_element(By.XPATH,"//span[@title='3-6 Lakhs'] ").click()
```

In [52]:
```python
job_title=[]
job_location=[]
company_name=[]
experience_required=[]
```

In [53]:
```python
#so lets extract data having the job title
title_tags=driver.find_elements(By.XPATH,'//a[@class="title fw500 ellipsis"]')
for i in title_tags[0:10]:
    title=i.text
    job_title.append(title)

    #so lets extract the data having the job location
location_tags=driver.find_elements(By.XPATH,'//li[@class="fleft grey-text br2 placeHolderLi location"]')
for i in location_tags[0:10]:
    location=i.text
    job_location.append(location)

#so lets extract all the data having the names company
company_tags=driver.find_elements(By.XPATH,'//a[@class="subTitle ellipsis fleft"]')
for i in company_tags[0:10]:
        company= i.text
        company_name.append(company)

 #so lets extract the experience required data
experience_tags=driver.find_elements(By.XPATH,'//li[@class="fleft grey-text br2 placeHolderLi experience"]')
for i in experience_tag[0:10]:
    experience=i.text
    experience_required.append(experience)
```

In [54]:
```python
print(len(job_title),len(job_location),len(company_name),len(experience_required))
```

```
10 10 10 10
```

In [55]:
```python
df=pd.DataFrame({'job-title':job_title,'job-location':job_location,'company-name':company_name,'experience-required':experience_required})
df
```

Out[55]:

	job-title	job-location	company-name	experience-required
0	Job||Job Opening For AI Technologist - Data Sc...	New Delhi, Hyderabad/Secunderabad, Pune, Chenn...	Wipro	5-10 Yrs
1	Data Scientist - Noida/Bangalore	Noida, Bangalore/Bengaluru	EXL	5-10 Yrs
2	DigitalBCG GAMMA Data Scientist	New Delhi, Bangalore/Bengaluru	Boston Consulting Group	2-5 Yrs
3	Data Scientist	Gurgaon/Gurugram	Optum	2-7 Yrs
4	Data Scientist - Predictive Analytics	Noida, Mumbai, Chandigarh, Hyderabad/Secundera...	Confidential	1-6 Yrs
5	Chat-bot Developer / Data Scientist	Mumbai, New Delhi, Bangalore/Bengaluru(WFH d...	Big Seo Buzz	2-7 Yrs
6	Data Scientist	Gurgaon/Gurugram	Feedback Infra	2-4 Yrs
7	Data Scientist / Chat-bot Developer	New Delhi, Bangalore/Bengaluru, Mumbai (All Ar...	Big Seo Buzz	3-7 Yrs
8	Data Scientist - Engine Algorithm	Delhi / NCR, Kolkata, Mumbai, Hyderabad/Secund...	Primo Hiring	1-3 Yrs
9	Data Scientist For Healthcare Product team	Delhi / NCR, Chennai, Bangalore/Bengaluru	SECUREKLOUD TECHNOLOGIES	2-7 Yrs

Q4: Scrape data of first 100 sunglasses listings on flipkart.com

In [7]:
```python
import requests
```

In [8]:
```python
requests.get('https://www.flipkart.com/')
```

Out[8]:
```
<Response [200]>
```

In [9]:
```python
driver.get('https://www.flipkart.com/ ')
```

In [13]:
```python
#finding element for Sunglasses search bar
search_glasses=driver.find_element(By.CLASS_NAME,'_3704LK')
search_glasses.send_keys('Sunglasses')

search_btn = driver.find_element(By.XPATH,"//button[@class='L0Z3Pu']")
search_btn.click()
```

In [14]:
```python
urls=[]
for i in driver.find_elements(By.XPATH,"//nav[@class='yFHi8N']//a"):
    urls.append(i.get_attribute("href"))
```

In [15]:
```python
Brands=[]
product_desc=[]
price=[]
Discount=[]

for i in urls[:3]:
    driver.get(i)
    time.sleep(3)

    #Brand Name of the Sunglasses
    brands=driver.find_elements(By.XPATH,"//div[@class='_2WkVRV']")
    for i in brands:
        Brands.append(i.text)

    #Product Description of the Sunglasses
    for j in driver.find_elements(By.XPATH,"//a[@class='IRpwTa']"):
        product_desc.append(j.text)

    #Price of the Sunglasses
    for k in driver.find_elements(By.XPATH,"//div[@class='_30jeq3']"):
        price.append(k.text)

    #Discount on the Sunglasses
    for l in driver.find_elements(By.XPATH,"//div[@class='_3Ay6Sb']//span"):
        Discount.append(l.text)
```

In [18]:
```python
Sunglasses=pd.DataFrame({})
Sunglasses['Brands ']=Brands[:100]
Sunglasses['Product Description']=product_desc[:100]
Sunglasses['Price']=price[:100]
Sunglasses['Discount']=Discount[:100]
Sunglasses
```

Out[18]:

	Brands	Product Description	Price	Discount
0	PROVOGUE	Polarized Rectangular Sunglasses (Free Size)	₹699	72% off
1	VINCENT CHASE	by Lenskart Polarized, UV Protection Aviator S...	₹1,415	29% off
2	Fastrack	UV Protection Wayfarer Sunglasses (Free Size)	₹799	20% off
3	Elligator	UV Protection Round Sunglasses (54)	₹298	88% off
4	PIRASO	UV Protection Rectangular Sunglasses (52)	₹252	90% off
...	...	...	...	...
95	VINCENT CHASE	by Lenskart Polarized, UV Protection Aviator S...	₹999	50% off
96	Fastrack	UV Protection Aviator Sunglasses (58)	₹1,169	10% off
97	AISLIN	UV Protection, Gradient Butterfly, Over-sized ...	₹675	74% off
98	AISLIN	UV Protection, Gradient Oval Sunglasses (58)	₹498	67% off
99	VINCENT CHASE	by Lenskart Polarized, UV Protection Aviator S...	₹1,049	47% off

100 rows × 4 columns

Q5: Scrape 100 reviews data from flipkart.com for iphone11 phone.

In [20]:
```python
requests.get('https://www.flipkart.com/')
```

Out[20]:
```
<Response [200]>
```

In [21]:
```python
driver.get('https://www.flipkart.com/ ')
```

In [22]:
```python
#finding element for Sunglasses search bar
search_glasses=driver.find_element(By.CLASS_NAME,'_3704LK')
search_glasses.send_keys('iphone11')

search_btn = driver.find_element(By.XPATH,"//button[@class='L0Z3Pu']")
search_btn.click()
```

In [24]:
```python
iPhonePageUrl = driver.find_element(By.XPATH,"//a[@class='_1fQZEK']").get_attribute("href")
driver.get(iPhonePageUrl)
```

In [25]:
```python
#Clicking the element for getting the full page of Review
search_rev = driver.find_element(By.XPATH,"//div[@class='_3UAT2v _16PBlm'] ").click()
```

In [27]:
```python
urls_pages=[]
for i in driver.find_elements(By.XPATH,"//nav[@class='yFHi8N']//a"):
    urls_pages.append(i.get_attribute("href"))
```

In [28]:
```python
Rating=[]
Review_summary=[]
Full_review=[]

for i in urls_pages[:11]:
    driver.get(i)
    time.sleep(3)

    #Rating of the Phone
    rating=driver.find_elements(By.XPATH,"//div[@class='_3LWZlK _1BLPMq']")
    for i in rating:
        Rating.append(i.text)

    #Review Summary of the Phone
    for j in driver.find_elements(By.XPATH,"//p[@class='_2-N8zT']"):
        Review_summary.append(j.text)

    #Full Review of the Phone
    for k in driver.find_elements(By.XPATH,"//div[@class='t-ZTKy']"):
        Full_review.append(k.text)
```

In [29]:
```python
iphone=pd.DataFrame({})
iphone['Rating ']=Rating[:100]
iphone['Review Summary']=Review_summary[:100]
iphone['Full Review']=Full_review[:100]
iphone
```

Out[29]:

	Rating	Review Summary	Full Review
0	5	Simply awesome	Really satisfied with the Product I received....
1	5	Perfect product!	Amazing phone with great cameras and better ba...
2	5	Best in the market!	Great iPhone very snappy experience as apple k...
3	5	Highly recommended	What a camera .....just awesome ..you can feel...
4	5	Worth every penny	Previously I was using one plus 3t it was a gr...
...	...	...	...
95	5	Terrific	I bought iPhone 11 On March 2021, And I am Wri...
96	5	Excellent	Just go for it.\nThis phone is really amazing....
97	5	Best in the market!	Don't expect much from front camera.... especiall...
98	5	Super!	This is my first ever iPhone.\nAnd I truly don...
99	5	Mind-blowing purchase	Absolutely powerful gadget. Loved it's look! S...

100 rows × 3 columns

Q6: Scrape data for first 100 sneakers you find when you visit flipkart.com and search for "sneakers" in the search field.

In [30]:
```python
requests.get('https://www.flipkart.com/')
```

Out[30]:
```
<Response [200]>
```

In [31]:
```python
url='https://www.flipkart.com/'
driver.get(url)
```

In [33]:
```python
#finding element for Sneakers search bar

search_glasses = driver.find_element(By.CLASS_NAME,'_3704LK')
search_glasses.send_keys('Sneakers')

#do click using class_name function
search_btn = driver.find_element(By.XPATH,"//button[@class='L0Z3Pu']")
search_btn.click()
```

In [36]:
```python
urls=[]
for i in driver.find_elements(By.XPATH,"//nav[@class='yFHi8N']//a"):
    urls.append(i.get_attribute("href"))
```

In [37]:
```python
Brands=[]
product_desc=[]
price=[]
Discount=[]

for i in urls[:4]:
    driver.get(i)
    time.sleep(3)

    #Brand Name of the Sneakers
    brands=driver.find_elements(By.XPATH,"//div[@class='_2WkVRV']")
    for i in brands:
        Brands.append(i.text)

    #Product Description of the Sneakers
    for j in driver.find_elements(By.XPATH,"//a[@class='IRpwTa']"):
        product_desc.append(j.text)

    #Price of the Sneakers
    for k in driver.find_elements(By.XPATH,"//div[@class='_30jeq3']"):
        price.append(k.text)

    #Discount on the Sneakers
    for l in driver.find_elements(By.XPATH,"//div[@class='_3Ay6Sb']//span"):
        Discount.append(l.text)
```

In [38]:
```python
Sneakers=pd.DataFrame({})
Sneakers['Brands ']=Brands[:100]
Sneakers['Product Description']=product_desc[:100]
Sneakers['Price']=price[:100]
Sneakers['Discount']=Discount[:100]
Sneakers
```

Out[38]:

	Brands	Product Description	Price	Discount
0	aadi	Mesh | Ultralightweight | Comfortable | Breath...	₹374	81% off
1	Deals4you	Sneakers For Men	₹389	74% off
2	Labbin	Sneakers For Men	₹499	50% off
3	BRUTON	2 Combo Sneaker Shoes Sneakers For Men	₹636	74% off
4	Chevit	Super Stylish & Trendy Combo Pack of 02 Pairs ...	₹544	71% off
...	...	...	...	...
95	Peelu	Skypy-31 Walking Shoes,Training Shoes,Sneakers...	₹499	75% off
96	LEVI'S	Sneakers For Men	₹1,759	45% off
97	Qitty	Casual Sneakers Shoes for Men Pack of 2 Combo(...	₹269	55% off
98	LEVI'S	Sneakers For Men	₹1,399	50% off
99	ADIDAS	1259 smart black lace-ups sneakers for men Sne...	₹1,305	67% off

100 rows × 4 columns

Q7 : Go to the link - https://www.myntra.com/shoes

In [97]:
```python
url='https://www.myntra.com/shoes'
driver.get(url)
```

In [98]:
```python
#Clicking the element for getting the Second Price filter"
search_price = driver.find_element(By.XPATH,"/html/body/div[2]/div/div[1]/main/div[3]/div[1]/section/div/div[5]/ul/li[2]/label").click()
```

In [99]:
```python
#Clicking the element for getting the color of the shoes"Black"
search_color= driver.find_element(By.XPATH,"/html/body/div[2]/div/div[1]/main/div[3]/div[1]/section/div/div[6]/ul/li[1]/label").click()
```

In [57]:
```python
Brands=[]
product_desc=[]
price=[]

for i in urls[:5]:
    driver.get(i)
    time.sleep(3)

    #Brand Name of the Shoes
    brands=driver.find_elements(By.XPATH,"//h3[@class='product-brand']")
    for i in brands:
        Brands.append(i.text)

    #Product Description of the Shoes
    for j in driver.find_elements(By.XPATH,"//h4[@class='product-product']"):
        product_desc.append(j.text)

    #Price of the Shoes
    for k in driver.find_elements(By.XPATH,"//span[@class='product-discountedPrice']"):
        price.append(k.text)
```

In [59]:
```python
Shoes=pd.DataFrame({})
Shoes['Brands ']=Brands[0:100]
Shoes['Product Description']=product_desc[0:100]
Shoes['Price']=price[0:100]
Shoes
```

Out[59]:

	Brands	Product Description	Price
0	Red Tape	Men Walking Shoes	Rs. 1619
1	Puma	Men Enzo Running Shoes	Rs. 2749
2	Nike	Men Downshifter 11 Running	Rs. 1469
3	Red Tape	Men Walking Shoes	Rs. 987
4	Eego Italy	Men Trekking Shoes	Rs. 3249
...	...	...	...
95	Mochi	Men Solid Leather Formal Derby	Rs. 3199
96	U.S. Polo Assn.	Men Textured PU Loafers	Rs. 2319
97	Red Tape	Men Loafers	Rs. 848
98	U.S. Polo Assn.	Men Solid Horsebit Loafers	Rs. 5249
99	Skechers	Men Max Cushioning Running	Rs. 868

100 rows × 3 columns

Q8: Go to webpage https://www.amazon.in/

In [60]:
```python
url='https://www.amazon.in/'
driver.get(url)
```

In [63]:
```python
#finding element for Laptop search bar
search_laptop = driver.find_element(By.ID,'twotabsearchtextbox')
search_laptop.send_keys('Laptop')

#do click using id function
search_btn = driver.find_element(By.ID,"nav-search-submit-button")
search_btn.click()
```

In [66]:
```python
#locating the core i7 filter
filter_button=driver.find_elements(By.XPATH,"//a[@class='a-link-normal s-navigation-item']/span")
for i in filter_button:
    if i.text=='Intel Core i7':
        i.click()
        break
```

In [83]:
```python
#Title of  Laptops
Title=[]
for i in driver.find_elements(By.XPATH,"//span[@class='a-size-medium a-color-base a-text-normal']"):
    Title.append(i.text)

#Ratings of  Laptops
Price=[]
for i in driver.find_elements(By.XPATH,"//span[@class='a-price-whole']"):
    Price.append(i.text)
```

In [84]:
```python
urls=[]
for i in driver.find_elements(By.XPATH,"//h2[@class='a-size-mini a-spacing-none a-color-base s-line-clamp-2']/a"):
    urls.append(i.get_attribute("href"))
```

In [86]:
```python
#Ratings of  Laptops
Ratings=[]

for i in urls:
    driver.get(i)
    time.sleep(3)
    #fetching the ratings of laptop
    try:
        rating=driver.find_elements(By.XPATH,"//span[@class='a-size-base a-nowrap']")
        Ratings.append(rating.text)
    except:
        Ratings.append('--')
```

In [88]:
```python
Amazon_laptop=pd.DataFrame({})
Amazon_laptop['Nmae of the Laptop ']=Title[0:10]
Amazon_laptop['Ratings of Laptop']=Ratings[0:10]
Amazon_laptop['Price of the Laptop']=Price[0:10]
Amazon_laptop
```

Out[88]:

	Nmae of the Laptop	Ratings of Laptop	Price of the Laptop
0	ASUS Vivobook 15, 15.6-inch (39.62 cms) FHD, I...	--	57,990
1	HP Pavilion Plus, 12th Gen Intel Core i7 16GB ...	--	89,990
2	Lenovo Ideapad Gaming 3 Intel Core i7 10th Gen...	--	62,990
3	Lenovo IdeaPad Slim 5 Intel Core i7 12th Gen 1...	--	81,990
4	(Renewed) Dell Latitude E7470 Intel Core i7 6t...	--	38,899
5	Hp Pavilion X360 11Th Gen Intel Core I7 14 Inc...	--	82,200
6	HP Pavilion 11th Gen Intel Core i7 15.6 inches...	--	86,600
7	(Renewed) Dell Intel 6th Gen Core i7-6820HQ 15...	--	43,198
8	(Renewed) Lenovo Intel Core i7 5600U 12.5-Inch...	--	23,998
9	Samsung Galaxy Book2 Intel 12th Gen core i7 39...	--	79,490

Q9: Write a python program to scrape data for first 10 job results for Data Scientist Designation in Noida location. You have to scrape company name, No. of days ago when job was posted, Rating of the company.

In [36]:
```python
url =  'https://www.ambitionbox.com/'
driver.get(url)
```

In [37]:
```python
jobsUrl = driver.find_element(By.XPATH,"//a[@class='navItemLink']").get_attribute("href")
driver.get(jobsUrl)
```

In [38]:
```python
#finding element for job search bar
designation = driver.find_element(By.CLASS_NAME,'tt-input')
designation.send_keys('Data Scientist')
```

In [39]:
```python
search=driver.find_element(By.XPATH,'//button[@class="ab_btn search-btn round"]')
search.click()
```

In [40]:
```python
search=driver.find_elements(By.XPATH,'//div[@class="filter-text"]')[1]
search.click()
```

In [41]:
```python
location= driver.find_element(By.XPATH,'//input[@placeholder="Search locations"]')
location.send_keys('Noida')
```

In [42]:
```python
driver.find_element(By.XPATH,'//input[@id="location_Noida"]').click()
```

In [49]:
```python
#Title of  Jobs
Title=[]
for i in driver.find_elements(By.XPATH,"//a[@class='title noclick']"):
    Title.append(i.text)

#Ratings of  Jobs
Ratings=[]
for i in driver.find_elements(By.XPATH,"//span[@class='body-small']"):
    Ratings.append(i.text)

#DaysAgo of  Jobs
DaysAgo=[]
lc = 0
for i in driver.find_elements(By.XPATH,"//span[@class='body-small-l']"):
    if(lc % 2 == 0):
        DaysAgo.append(i.text)
    lc=lc+1
```

In [50]:
```python
noidaJobsData=pd.DataFrame({})
noidaJobsData['Job Title']=Title[0:10]
noidaJobsData['Ratings']=Ratings[0:10]
noidaJobsData['Days Ago']=DaysAgo[0:10]
noidaJobsData
```

Out[50]:

	Job Title	Ratings	Days Ago
0	Hiring Data Scientist #productbasecompany #CBRE	4.3	8d ago
1	Hiring For Genpact-Data Scientist- Forecasting...	4.0	1d ago
2	Genpact - Data Scientist - Forecasting/Python/...	4.0	3d ago
3	Data Scientist	4.3	18d ago
4	Data Scientist	4.0	11d ago
5	Data Scientist	4.1	15d ago
6	Associate Manager - Data Scientist	4.1	16d ago
7	Data Scientist	4.3	28d ago
8	Data Scientist	4.2	17d ago
9	Data Scientist - Noida/Bangalore	3.9	17d ago

Q10: Write a python program to scrape the salary data for Data Scientist designation. You have to scrape Company name, Number of salaries, Average salary, Minsalary, Max Salary.

In [51]:
```python
url =  'https://www.ambitionbox.com/'
driver.get(url)
```

In [55]:
```python
salUrl = driver.find_element(By.XPATH,"//a[@title='Browse salaries']").get_attribute("href")
driver.get(salUrl)
```

In [103]:
```python
designation = driver.find_element(By.ID,'jobProfileSearchbox')
designation.send_keys('Data Scientist')
```

In [108]:
```python
#search=driver.find_element(By.XPATH,"//div[@class='suggestion_wrap tt-suggestion tt-selectable']")
#search.click()

#Unable To solve this
```

In [113]:
```python
#Title of  Jobs
Title=[]
for i in driver.find_elements(By.XPATH,"//div[@class='company-info']//a"):
    Title.append(i.text.split('\n')[0])

#Salary Record
salRec=[]
for i in driver.find_elements(By.XPATH,"//span[@class='datapoints']"):
    salRec.append(i.text)

#Average Sal
avgSal=[]
for i in driver.find_elements(By.XPATH,"//p[@class='averageCtc']"):
    avgSal.append(i.text)

#Minimum Sal And Maximum Sal
minSal=[]
maxSal=[]
for i in driver.find_elements(By.XPATH,"//div[@class='salary-values']"):
    salData = i.text.split('\n')
    minSal.append(salData[0])
    maxSal.append(salData[1])

#Experience
expReq=[]
for i in driver.find_elements(By.XPATH,"//div[@class='sbold-list-header']"):
    expReq.append(i.text.split('\n')[0])
```

In [114]:
```python
dsJobs=pd.DataFrame({})
dsJobs['Job Title']=Title[0:10]
dsJobs['Salary Record']=salRec[0:10]
dsJobs['Average Salary']=avgSal[0:10]
dsJobs['Maximum Salary']=minSal[0:10]
dsJobs['Minimum Salary']=maxSal[0:10]
dsJobs['Experience Required']=expReq[0:10]
dsJobs
```

Out[114]:

	Job Title	Salary Record	Average Salary	Maximum Salary	Minimum Salary	Experience Required
0	Google	(based on 51 salaries)	₹ 34.0L	₹ 11.7L	₹ 97.0L	1-4 yrs experience (based on 51 salaries)
1	Microsoft Corporation	(based on 334 salaries)	₹ 23.6L	₹ 13.0L	₹ 50.0L	1-4 yrs experience (based on 334 salaries)
2	Goldman Sachs	(based on 36 salaries)	₹ 22.9L	₹ 12.0L	₹ 34.0L	1-2 yrs experience (based on 36 salaries)
3	Amazon	(based on 133 salaries)	₹ 21.2L	₹ 8.7L	₹ 45.0L	1-4 yrs experience (based on 133 salaries)
4	Servicenow Software Development India	(based on 71 salaries)	₹ 20.7L	₹ 14.0L	₹ 30.0L	2-4 yrs experience (based on 71 salaries)
5	Tekion	(based on 41 salaries)	₹ 20.6L	₹ 11.7L	₹ 34.0L	2-4 yrs experience (based on 41 salaries)
6	Walmart	(based on 105 salaries)	₹ 20.1L	₹ 12.0L	₹ 32.5L	1-4 yrs experience (based on 105 salaries)
7	PayPal	(based on 29 salaries)	₹ 19.6L	₹ 12.0L	₹ 30.0L	1-2 yrs experience (based on 29 salaries)
8	Arista Networks	(based on 56 salaries)	₹ 19.4L	₹ 4.9L	₹ 38.0L	1-4 yrs experience (based on 56 salaries)
9	Arcesium	(based on 68 salaries)	₹ 19.3L	₹ 12.0L	₹ 34.0L	1-2 yrs experience (based on 68 salaries)

In [ ]: