

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

```
Requirement already satisfied: Selenium in c:\users\hp\anaconda3\lib\site-packages (4.9.0)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\hp\anaconda3\lib\site-packages (from Selenium) (0.10.2)
Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\hp\anaconda3\lib\site-packages (from Selenium) (1.26.9)
Requirement already satisfied: trio~=0.17 in c:\users\hp\anaconda3\lib\site-packages (from Selenium) (0.22.0)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\hp\anaconda3\lib\site-packages (from Selenium) (2022.12.7)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\hp\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.1.1)
Requirement already satisfied: idna in c:\users\hp\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (3.3)
Requirement already satisfied: outcome in c:\users\hp\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.2.0)
Requirement already satisfied: async-generator>=1.9 in c:\users\hp\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.10)
Requirement already satisfied: sortedcontainers in c:\users\hp\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (2.4.0)
Requirement already satisfied: cffi>=1.14 in c:\users\hp\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.15.0)
Requirement already satisfied: attrs>=19.2.0 in c:\users\hp\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (21.4.0)
Requirement already satisfied: sniffio in c:\users\hp\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.2.0)
Requirement already satisfied: pycparser in c:\users\hp\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->Selenium) (2.21)
Requirement already satisfied: wsproto>=0.14 in c:\users\hp\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\hp\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->Selenium) (1.7.1)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\hp\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->Selenium) (0.14.0)
```

```
In [2]: import selenium
import pandas as pd
from selenium import webdriver
import warnings
warnings.filterwarnings('ignore')
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
from selenium.webdriver.common.by import By
import time
```

1. 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. This task will be done in following steps:

1. First get the webpage <https://www.naukri.com/>
2. Enter "Data Analyst" in "Skill, Designations, Companies" field and enter "Bangalore" in "enter the location" field.
3. Then click the search button.
4. Then scrape the data for the first 10 jobs results you get.
5. Finally create a dataframe of the scraped data.

```
In [ ]:
```

```
In [ ]:
```

```
In [3]: driver=webdriver.Chrome(r'C:\internship_data\chromedriver_win32.zip\chromedriver.exe')
```

```
In [4]: driver.get('https://www.naukri.com/')
```

```
In [5]: driver.maximize_window()
```

```
In [6]: designation=driver.find_element(By.CLASS_NAME,"suggestor-input")
designation.send_keys("Data Analyst")
```

```
In [7]: location=driver.find_element(By.XPATH,"/html/body/div[1]/div[7]/div/div/div[5]/div/div/div/div[1]/div/input")
location.send_keys("Bangalore")
```

```
In [8]: search=driver.find_element(By.CLASS_NAME,"qsbSubmit")
search.click()
```

```
In [9]: job_title=[]
job_location=[]
company_name=[]
experience_required=[]
```

```
In [10]: title_tags=driver.find_elements(By.XPATH,"//a[@class='title ellipsis']")
for i in title_tags[:10]:
    title=i.text
```

```

        job_title.append(title)

location_tags=driver.find_elements(By.XPATH,'//span[@class="ellipsis fleft locWdth"]')
for i in location_tags[:10]:
    location=i.text
    job_location.append(location)

name_tags=driver.find_elements(By.XPATH,'//a[@class="subTitle ellipsis fleft"]')
for i in name_tags[:10]:
    name=i.text
    company_name.append(name)

experience_tags=driver.find_elements(By.XPATH,'//span[@class="ellipsis fleft expwdth"]')
for i in experience_tags[:10]:
    experience=i.text
    experience_required.append(experience)

```

```

In [11]: print(len(job_title),len(job_location),len(company_name),len(experience_required))

10 10 10 10

```

```

In [12]: df=pd.DataFrame({'Title':job_title,'Location':job_location,'Company':company_name,'Experience':experience_requi
df

```

```

Out[12]:

```

	Title	Location	Company	Experience
0	Data Analyst	Bangalore/Bengaluru	ANZ	6-9 Yrs
1	Data Analyst	Bangalore/Bengaluru	ANZ	6-10 Yrs
2	Data Analyst - IIT/BITS/Startups	Bangalore/Bengaluru	AVE Promagne	1-5 Yrs
3	Data Analyst - FinTech	Mumbai, Hyderabad/Secunderabad, Pune, Ahmedaba...	Primo Hiring	1-2 Yrs
4	Data Analyst - FinTech	Kolkata, Mumbai, Hyderabad/Secunderabad, Pune,...	Primo Hiring	1-2 Yrs
5	Data Analyst - FinTech	Kolkata, Mumbai, Hyderabad/Secunderabad, Pune,...	Primo Hiring	1-2 Yrs
6	Data Analyst - IIT/BITS/Startups	Bangalore/Bengaluru	AVE Promagne	1-5 Yrs
7	Data Analyst	Temp. WFH - Noida, Pune, Gurgaon/Gurugram, Ban...	Infogain	4-7 Yrs
8	Data Analyst	Bangalore/Bengaluru	S&P Global Inc.	1-4 Yrs
9	Banking Data Analyst	Hyderabad/Secunderabad, Bangalore/Bengaluru, G...	Coforge	5-10 Yrs

```

In [13]: driver.close()

```

```

In [ ]:

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In [ ]:

```

2. 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. This task will be done in following steps:

1. First get the webpage <https://www.naukri.com/>
2. Enter “Data Scientist” in “Skill, Designations, Companies” field and enter “Bangalore” in “enter the location” field.
3. Then click the searchbutton.
4. Then scrape the data for the first 10 jobs results you get.
5. Finally create a dataframe of the scraped data.

```

In [ ]:

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In [ ]:

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In [14]: driver=webdriver.Chrome(r'C:\internship_data\chromedriver_win32.zip\chromedriver.exe')

```

```

In [15]: driver.get(' https://www.naukri.com/')

```

```

In [16]: driver.maximize_window()

```

```

In [17]: designation=driver.find_element(By.CLASS_NAME,"suggestor-input")
designation.send_keys("Data Scientist")

```

```

In [18]: location=driver.find_element(By.XPATH,"/html/body/div[1]/div[7]/div/div/div[5]/div/div/div/div[1]/div/input")
location.send_keys("Banglore")

```

```

In [19]: search=driver.find_element(By.CLASS_NAME,"qsbSubmit")
search.click()

```

```

In [20]: job_title=[]
job_location=[]
company_name=[]

```

```
In [21]: title_tags=driver.find_elements(By.XPATH,'//a[@class="title ellipsis"]')
        for i in title_tags[:10]:
            title=i.text
            job_title.append(title)

        location_tags=driver.find_elements(By.XPATH,'//span[@class="ellipsis fleft locWdth"]')
        for i in location_tags[:10]:
            location=i.text
            job_location.append(location)

        name_tags=driver.find_elements(By.XPATH,'//a[@class="subTitle ellipsis fleft"]')
        for i in name_tags[:10]:
            name=i.text
            company_name.append(name)
```

```
In [22]: print(len(job_title),len(job_location),len(company_name))

0 0 0
```

```
In [23]: df=pd.DataFrame({'Title':job_title,'Location':job_location,'Company':company_name})
        df
```

```
Out[23]:   Title Location Company
```

```
In [24]: driver.close()
```

```
In [ ]:
```

3.In this question you have to scrape data using the filters available on the webpage as shown below: You have to use the location and salary filter. You have to scrape data for "Data Scientist" designation for first 10 job results. You have to scrape the job-title, job-location, company name, experience required. The location filter to be used is "Delhi/NCR". The salary filter to be used is "3-6" lakh

```
In [ ]:
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In [ ]:
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```
In [25]: driver=webdriver.Chrome(r'C:\internship_data\chromedriver_win32.zip\chromedriver.exe')
```

```
In [26]: driver.get(' https://www.naukri.com/')
```

```
In [27]: driver.maximize_window()
```

```
In [29]: designation=driver.find_element(By.CLASS_NAME,"suggestor-input")
        designation.send_keys("Data Scientist")
```

```
In [30]: search=driver.find_element(By.CLASS_NAME,"qsbSubmit")
        search.click()
```

```
In [31]: loc_filter=driver.find_element(By.XPATH,'/html/body/div[1]/div[4]/div/div/section[1]/div[2]/div[6]/div[2]/div[3]')
        loc_filter.click()
```

```
In [32]: sal_filter=driver.find_element(By.XPATH,'/html/body/div[1]/div[4]/div/div/section[1]/div[2]/div[2]/div[2]/div[1]')
        sal_filter.click()
```

```
In [33]: job_title=[]
        job_location=[]
        company_name=[]
        experience_required=[]
```

```
In [34]: title_tags=driver.find_elements(By.XPATH,'//a[@class="title ellipsis"]')
        for i in title_tags[:10]:
            title=i.text
            job_title.append(title)
        location_tag=driver.find_elements(By.XPATH,'//span[@class="ellipsis fleft locWdth"]')
        for i in location_tag[:10]:
            location=i.text
            job_location.append(location)

        name_tags=driver.find_elements(By.XPATH,'//a[@class="subTitle ellipsis fleft"]')
        for i in name_tags[:10]:
            name=i.text
            company_name.append(name)

        experience_tag=driver.find_elements(By.XPATH,'//span[@class="ellipsis fleft expwdth"]')
        for i in experience_tag[:10]:
            experience=i.text
            experience_required.append(experience)
```

```
In [35]: print(len(job_title),len(job_location),len(company_name),len(experience_required))
```

10 10 10 10

```
In [36]: df=pd.DataFrame({'Job_Title':job_title,'Job_Location':job_location,'Company_Name':company_name,'Experience_Required':experience_required})
df
```

```
Out[36]:
```

	Job_Title	Job_Location	Company_Name	Experience_Required
0	Manager, Data Solution Specialist	Mumbai, New Delhi, Bangalore/Bengaluru	Pfizer	3-5 Yrs
1	Data Scientist_NLP	Mumbai, Pune, Chennai, Gurgaon/Gurugram, Banga...	Fractal Analytics	5-11 Yrs
2	Machine Learning (AI) Architect	Kolkata, Mumbai, New Delhi, Hyderabad/Secunder...	Persistent	5-12 Yrs
3	Opportunity Data Scientist Tavant India	Noida, Kolkata, Hyderabad/Secunderabad, Bangal...	Tavant Technologies	6-11 Yrs
4	Data Scientist - Engine Algorithm	Delhi / NCR, Kolkata, Mumbai, Visakhapatnam, H...	Primo Hiring	1-3 Yrs
5	Sr. Data Scientist - Python / ML / DL	Noida, Mumbai, Chandigarh, Hyderabad/Secundera...	AVE Promagne	5-8 Yrs
6	Data Scientist - Engine Algorithm	Delhi / NCR, Mumbai, Hyderabad/Secunderabad, P...	Primo Hiring	1-3 Yrs
7	Data Scientist- Python/ML/DL	Noida, Mumbai, Pune, Chennai, Bangalore/Bengal...	AVE Promagne	2-4 Yrs
8	Data Scientist - Engine Algorithm	Delhi / NCR, Kolkata, Mumbai, Pune, Chennai, A...	Primo Hiring	1-3 Yrs
9	Data Scientist with Retail Domain	Delhi / NCR, Kolkata, Mumbai, Nagpur, Hyderaba...	TRH Consultancy Services	4-9 Yrs

```
In [37]: driver.close()
```

```
In [ ]:
```

4: Scrape data of first 100 sunglasses listings on flipkart.com. You have to scrape four attributes:

1. Brand
2. ProductDescription
3. Price The attributes which you have to scrape is ticked marked in the below image.

```
In [ ]:
```

```
In [ ]:
```

```
In [38]: driver=webdriver.Chrome(r'C:\intership data\chromedriver_win32.zip\chromedriver.exe')
```

```
In [39]: driver.get("https://www.flipkart.com/")
```

```
In [40]: pop_up =driver.find_element(By.XPATH, '/html/body/div[2]/div/div/button')
pop_up.click()
```

```
In [41]: search= driver.find_element(By.CLASS_NAME, "_3704LK")
search.send_keys('sunglasses')
```

```
In [42]: button=driver.find_element(By.CLASS_NAME, "L0Z3Pu")
button.click()
```

```
In [43]: brand=[]
product_description=[]
price=[]
```

```
In [44]: start=0
end=3
for page in range(start,end):
    brand_tags=driver.find_elements(By.XPATH, '//*[@class="_2WkVRV"]')
    for i in brand_tags:
        brand.append(i.text)

    price_tags=driver.find_elements(By.XPATH, '//*[@class="_30jeq3"]')
    for i in price_tags:
        price.append(i.text)

    product_des = driver.find_elements(By.XPATH, '//*[@class="IRpwTa"]')
    for i in product_des:
        product_description.append(i.text)

    next_button=driver.find_element(By.XPATH, '//*[@class="_1LKT03"]')
    next_button.click()
    time.sleep(3)
```

```
In [45]: Brand=brand[0:100]
Product_description=product_description[0:100]
Price=price[0:100]
```

```
In [46]: print(len(Brand),len(Product_description),len(Price))
```

100 100 100

```
In [47]: df=pd.DataFrame({'Brand':Brand, 'Product_Description':Product_description, 'Price':Price})
```

```
In [47]: df=pd.DataFrame({'Brand':Brand, 'Product_Description':Product_Description, 'Price':Price},
df.head()
```

```
Out[47]:
```

	Brand	Product_Description	Price
0	VINCENT CHASE	by Lenskart Polarized, UV Protection Retro Squ...	₹849
1	VINCENT CHASE	UV Protection Wayfarer Sunglasses (59)	₹509
2	PIRASO	UV Protection Clubmaster Sunglasses (54)	₹224
3	PIRASO	UV Protection Aviator Sunglasses (Free Size)	₹268
4	TamTam	UV Protection Retro Square Sunglasses (Free Size)	₹181

```
In [48]: driver.close()
```

```
In [ ]:
```

5.Scrape 100 reviews data from flipkart.com for iphone11 phone. You have to go the link: <https://www.flipkart.com/apple-iphone-11-black-64-gb/productreviews/itm4e5041ba101fd?pid=MOBFWQ6BXGJCEYNY&lid=LSTMOBFWQ6BXGJCEYNYZXSJRJ&marketplace=FLIPKART> As shown in the above page you have to scrape the tick marked attributes. These are:

1. Rating
2. Review summary
3. Full review
4. You have to scrape this data for first 100reviews.

```
In [ ]:
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```
In [ ]:
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```
In [49]: driver=webdriver.Chrome(r'C:\intership data\chromedriver_win32.zip\chromedriver.exe')
```

```
In [50]: driver.get("https://www.flipkart.com/")
```

```
In [51]: pop_up =driver.find_element(By.XPATH, '/html/body/div[2]/div/div/button')
pop_up.click()
```

```
In [52]: search= driver.find_element(By.CLASS_NAME, "_3704LK")
search.send_keys('iphone11')
```

```
In [53]: button=driver.find_element(By.CLASS_NAME, "L0Z3Pu")
button.click()
time.sleep(2)
```

```
In [54]: black_phone =driver.find_element(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]/div[5]/div/div/div/a/div[1]')
black_phone.click()
```

```
In [55]: driver.maximize_window()
```

```
In [56]: rating=[]
review_summary=[]
full_review=[]
```

```
In [57]: start=0
end=11

for page in range(start,end):

    rating_tag=driver.find_elements(By.XPATH, '//div[@class="_3LWZlK _1BLPMq"]')
    for i in rating_tag:
        rating.append(i.text)
    summary=driver.find_elements(By.XPATH, '//div[@class="t-ZTKy"]')
    for i in summary:
        review_summary.append(i.text)
    review=driver.find_elements(By.XPATH, '//p[@class="_2-N8zT"]')
    for i in review:
        full_review.append(i.text)
    next_button=driver.find_element(By.XPATH, '//a[@class="_1LKT03"]')
    next_button.click()
    time.sleep(12)
```

```
In [58]: Rating=rating[:100]
Review_summary=review_summary[:100]
Full_review=full_review[:100]
```

```
In [59]: print(len(Rating),len(Review_summary),len(Full_review))
```

```
66 66 66
```

```
In [60]: df=pd.DataFrame({'Rating':Rating, 'Review_Summary':Review_summary, 'Full_Review':Full_review})
```

```
df.head()
```

```
Out[60]:
```

	Rating	Review_Summary	Full_Review
0	4	impressively Nice.....\nOne of the greatest i...	Good quality product
1	5	Nice products thanks flkat	Perfect product!
2	5	Really satisfied with the Product I received.....	Simply awesome
3	5	Really loved it and fast dlrvy also..tnkuu flpkrt	Best in the market!
4	5	Fast performance to previous iPhone x\nGood ca...	Fabulous!

```
driver.close()
```

```
In [ ]:
```

6.Scrape data for first 100 sneakers you find when you visit flipkart.com and search for “sneakers” in the search field. You have to scrape 3 attributes of each sneaker:

1. Brand
2. ProductDescription
3. Price As shown in the below image, you have to scrape the above attributes.

```
In [ ]:
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```
In [ ]:
```

```
In [61]: driver=webdriver.Chrome(r'C:\intership data\chromedriver_win32.zip\chromedriver.exe')
```

```
In [62]: driver.get("https://www.flipkart.com/")
```

```
In [63]: pop_up =driver.find_element(By.XPATH, '/html/body/div[2]/div/div/button')
pop_up.click()
```

```
In [64]: search= driver.find_element(By.CLASS_NAME, "_3704LK")
search.send_keys('sneakers')
```

```
In [65]: button=driver.find_element(By.CLASS_NAME, "L0Z3Pu")
button.click()
```

```
In [66]: brand=[]
product_description=[]
price=[]
```

```
In [67]: start=0
end=3
for page in range(start,end):
    brand_tags=driver.find_elements(By.XPATH, '//div[@class="_2WkVRV"]')
    for i in brand_tags:
        brand.append(i.text)

    price_tags=driver.find_elements(By.XPATH, '//div[@class="_30jeq3"]')
    for i in price_tags:
        price.append(i.text)

    product_des = driver.find_elements(By.XPATH, "//a[@class='IRpwTa' ]")
    for i in product_des:
        product_description.append(i.text)

    next_button=driver.find_element(By.XPATH, '//a[@class="_1LKT03"]')
    next_button.click()
    time.sleep(3)
```

```
In [68]: Brand=brand[0:100]
Product_description=product_description[0:100]
Price=price[0:100]
```

```
In [69]: print(len(Brand),len(Product_description),len(Price))

100 100 100
```

```
In [70]: df=pd.DataFrame({'Brand':Brand, 'Product_Description':Product_description, 'Price':Price})
df.head()
```



```
In [84]: driver.get('https://www.azquotes.com/')
```

```
In [85]: top_quotes=driver.find_element(By.XPATH, '/html/body/div[1]/div[1]/div[1]/div/div[3]/ul/li[5]/a')
top_quotes.click()
```

```
In [86]: quote=[]
author=[]
type_of_quotes=[]
```

```
In [87]: start=0
end=10
for page in range(start,end):
    quote_tag=driver.find_elements(By.XPATH, '///a[@class="title"]')
    for i in quote_tag:
        quote.append(i.text)
    author_tag=driver.find_elements(By.XPATH, '///div[@class="author"]')
    for i in author_tag:
        author.append(i.text)
    quotes_type=driver.find_elements(By.XPATH, '///div[@class="tags"]')
    for i in quotes_type:
        type_of_quotes.append(i.text)

    next_button=driver.find_element(By.XPATH, '/html/body/div[1]/div[2]/div/div/div/div[1]/div/div[3]/li[12]/a')
    next_button.click()
    time.sleep(3)
```

```
In [88]: print(len(quote),len(author),len(type_of_quotes))

1000 1000 1000
```

```
In [89]: driver.close()
```

```
In [ ]:
```

9. Write a python program to display list of respected former Prime Ministers of India (i.e. Name, Born-Dead, Term of office, Remarks) from <https://www.jagranjosh.com/>. This task will be done in following steps:

1. First get the webpage <https://www.jagranjosh.com/>
2. Then You have to click on the GK option
3. Then click on the List of all Prime Ministers of India
4. Then scrap the mentioned data and make the DataFrame

```
In [ ]:
```

```
In [ ]:
```

```
In [90]: driver=webdriver.Chrome(r'C:\intership data\chromedriver_win32.zip\chromedriver.exe')
```

```
In [91]: driver.get('https://www.jagranjosh.com')
```

```
In [92]: gk=driver.find_element(By.XPATH, '/html/body/div/div[1]/div/div[1]/div/div[5]/div/div[1]/header/div[3]/ul/li[3]/a')
gk.click()
```

```
In [95]: PM_of_India=driver.find_element(By.XPATH, '/html/body/div[1]/div/div/div[2]/div/div[10]/div/div/ul/li[2]/a')
PM_of_India.click()
```

```
In [96]: name=[]
born_dead=[]
term_of_office=[]
remarks=[]
```

```
In [97]: name_tag=driver.find_elements(By.XPATH, '///table/tbody/tr/td[2]')
for i in name_tag[:18]:
    name.append(i.text)
b_d=driver.find_elements(By.XPATH, '///table/tbody/tr/td[3]')
for i in b_d[:18]:
    born_dead.append(i.text)
term_office=driver.find_elements(By.XPATH, '///table/tbody/tr/td[3]')
for i in term_office[:18]:
    term_of_office.append(i.text)
remark=driver.find_elements(By.XPATH, '///table/tbody/tr/td[4]')
for i in remark[:18]:
    remarks.append(i.text)
```

```
In [98]: print(len(name),len(born_dead),len(term_of_office),len(remarks))

18 18 18 18
```

```
In [99]: df=pd.DataFrame({'Name':name, 'Born_Dead':born_dead, 'Term_Of_Office':term_of_office, 'Remarks':remarks})
```


df

Out[99]:

	Name	Born_Dead	Term_Of_Office	Remarks
0	Jawahar Lal Nehru	(1889–1964)	(1889–1964)	15 August 1947 to 27 May 1964\n16 years, 286 days
1	Gulzarilal Nanda (Acting)	(1898–1998)	(1898–1998)	27 May 1964 to 9 June 1964,\n13 days
2	Lal Bahadur Shastri	(1904–1966)	(1904–1966)	9 June 1964 to 11 January 1966\n1 year, 216 days
3	Gulzari Lal Nanda (Acting)	(1898–1998)	(1898–1998)	11 January 1966 to 24 January 1966\n13 days
4	Indira Gandhi	(1917–1984)	(1917–1984)	24 January 1966 to 24 March 1977\n11 years, 59...
5	Morarji Desai	(1896–1995)	(1896–1995)	24 March 1977 to 28 July 1979 \n2 year, 126 days
6	Charan Singh	(1902–1987)	(1902–1987)	28 July 1979 to 14 January 1980\n170 days
7	Indira Gandhi	(1917–1984)	(1917–1984)	14 January 1980 to 31 October 1984\n4 years, 2...
8	Rajiv Gandhi	(1944–1991)	(1944–1991)	31 October 1984 to 2 December 1989\n5 years, 3...
9	V. P. Singh	(1931–2008)	(1931–2008)	2 December 1989 to 10 November 1990\n343 days
10	Chandra Shekhar	(1927–2007)	(1927–2007)	10 November 1990 to 21 June 1991\n223 days
11	P. V. Narasimha Rao	(1921–2004)	(1921–2004)	21 June 1991 to 16 May 1996\n4 years, 330 days
12	Atal Bihari Vajpayee	(1924- 2018)	(1924- 2018)	16 May 1996 to 1 June 1996\n16 days
13	H. D. Deve Gowda	(born 1933)	(born 1933)	1 June 1996 to 21 April 1997\n324 days
14	Inder Kumar Gujral	(1919–2012)	(1919–2012)	21 April 1997 to 19 March 1998 \n332 days
15	Atal Bihari Vajpayee	(1924-2018)	(1924-2018)	19 March 1998 to 22 May 2004 \n6 years, 64 days
16	Manmohan Singh	(born 1932)	(born 1932)	22 May 2004 to 26 May 2014 \n10 years, 4 days
17	Narendra Modi	(born 1950)	(born 1950)	26 May 2014 - Present

In [100] driver.close()

In []:

10: Write a python program to display list of 50 Most expensive cars in the world (i.e. Car name and Price) from <https://www.motor1.com/>
This task will be done in following steps:

1. First get the webpage<https://www.motor1.com/>
2. Then You have to click on the List option from Dropdown menu on leftside.
3. Then click on 50 most expensive cars in the world..
4. Then scrap the mentioned data and make the dataframe

In []:

In []:

In [101] driver=webdriver.Chrome(r'C:\intership data\chromedriver_win32.zip\chromedriver.exe')

In [102] driver.get(' https://www.motor1.com/')

In [103] dropdown_menu=driver.find_element(By.CLASS_NAME,"m1-hamburger-button")
dropdown_menu.click()

In [104] podcast=driver.find_element(By.XPATH,'/html/body/div[4]/div[1]/div[3]/ul/li[12]/a')
podcast.click()

In [105] List=driver.find_element(By.XPATH,'/html/body/div[3]/div[7]/div/div/div/div/a[1]')
List.click()

In [106] expensive_cars=driver.find_element(By.XPATH,'/html/body/div[3]/div[8]/div[1]/div[1]/div/div/div[7]/div/div[1]/h')
expensive_cars.click()

In [107] name=[]
price=[]

In [108] names=driver.find_elements(By.XPATH,'//h3[@class="subheader"]')
for i in names[:50]:
 name.append(i.text)

prices=driver.find_elements(By.XPATH,'//*[@id="article_box"]/div[1]/div[2]/div[1]/p/strong')
for i in prices[:50]:
 Price=i.text.replace('Price:', '')
 price.append(Price)

In [109] print(len(name),len(price))

50 50

In [110...

df=pd.DataFrame({'Car_Name':name,'Price':price})
df.tail()

Out[110]:

	Car_Name	Price
45	Bugatti Centodieci	\$8.0 Million
46	Bugatti Chiron Profilée	\$9.0 Million
47	Rolls-Royce Sweptail	\$10.8 Million
48	Bugatti La Voiture Noire	\$12.8 Million
49	Rolls-Royce Boat Tail*	\$13.4 Million

In [111...

driver.close()

In []: