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

```
Requirement already satisfied: selenium in c:\users\dell\anaconda3\lib\site-packages (4.15.2)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\dell\anaconda3\lib\site-packages (from seleniu
m) (2022.12.7)
Requirement already satisfied: urllib3[socks]<3,>=1.26 in c:\users\dell\anaconda3\lib\site-packages (from sel
enium) (1.26.14)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\dell\anaconda3\lib\site-packages (from seleniu
m) (0.11.1)
Requirement already satisfied: trio~=0.17 in c:\users\dell\anaconda3\lib\site-packages (from selenium) (0.23.
1)
Requirement already satisfied: sortedcontainers in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17
->selenium) (2.4.0)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\dell\anaconda3\lib\site-packages (from tr
io~=0.17->selenium) (1.1.3)
Requirement already satisfied: attrs>=20.1.0 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->s
elenium) (22.1.0)
Requirement already satisfied: outcome in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->seleniu
m) (1.3.0.post0)
Requirement already satisfied: cffi>=1.14 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->sele
nium) (1.15.1)
Requirement already satisfied: sniffio>=1.3.0 in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->
selenium) (1.3.0)
Requirement already satisfied: idna in c:\users\dell\anaconda3\lib\site-packages (from trio~=0.17->selenium)
(3.4)
Requirement already satisfied: wsproto>=0.14 in c:\users\dell\anaconda3\lib\site-packages (from trio-websocke
t~=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]<3,>=1.26->selenium) (1.7.1)
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: 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 [2]:
```
import selenium
from selenium import webdriver
import pandas as pd
from selenium.webdriver.common.by import By
import warnings
warnings.filterwarnings("ignore")
import time
```

In [3]:
```
driver = webdriver.Chrome()
```

In [4]:
```
driver.get("https://www.shine.com/")
```

In [6]:
```
time.sleep(10)
allow_btn = driver.find_element(By.XPATH,"/html/body/div/div[2]/div/div/div/div/button")
allow_btn.click()
```

In [8]:
```
click = driver.find_element(By.CLASS_NAME,'searchBarInput')
click.click()
```

In [9]:
```
designation = driver.find_element(By.CLASS_NAME,"form-control")
designation.send_keys("Data Analyst")
```

In [10]:
```
location =driver.find_element(By.XPATH,'/html/body/div/div[4]/div/div[2]/div[2]/div/form/div/div[1]/ul/li[2]/d
location.send_keys("Bangalore")
```

In [12]:
```
search = driver.find_element(By.CLASS_NAME,"searchForm_btnWrap_advance__VYBHN")
search.click()
```

In [14]:
```
time.sleep(10)
allow_btn = driver.find_element(By.XPATH,"/html/body/div[1]/div[2]/div/div/div/div/button")
allow_btn.click()
```

In [15]:
```
close = driver.find_element(By.XPATH,"/html/body/div[1]/div[1]/div[1]/div/div/button")
close.click()
```

In [16]:
```
job_title = []
title_tags =driver.find_elements(By.XPATH,'//h2[@itemprop="name"]//a')
for i in title_tags:
    title = i.text
    job_title.append(title)
```

In [17]:
```
print(len(job_title))
```

```
20
```

In [18]:
```
Loc = []

loc_tags = driver.find_elements(By.XPATH,'//div[@class=" jobCard_jobCard_lists_item__YxRkV jobCard_locationIco
for i in loc_tags:
    location =i.text
    Loc.append(location)
```

In [19]:
```
print(len(Loc))
```

```
20
```

In [20]:
```
company_name = []
com_tags = driver.find_elements(By.XPATH,'//div[@class="jobCard_jobCard_cName__mYnow"]//span')
for i in com_tags:
    company_name.append(i.text)
```

In [21]:
```
print(len(company_name))
```

```
20
```

In [22]:
```
exp_req =[]
exp_tags = driver.find_elements(By.XPATH,'//div[@class=" jobCard_jobCard_lists_item__YxRkV jobCard_jobIcon__3F
for i in exp_tags:
    exp_req.append(i.text)
```

In [23]:
```
print(len(exp_req))
```

```
20
```

In [24]:
```
df = pd.DataFrame({'Title':job_title,'Location':Loc,'Company Name':company_name,'Experience':exp_req})
df.head(10)
```

Out[24]:

	Title	Location	Company Name	Experience
0	Data Analyst Vacancy	Bangalore\n+14	divya interprises	0 to 4 Yrs
1	Data Analyst Vacancy	Bangalore\n+14	divya interprises	0 to 4 Yrs
2	Clinical Data Analyst	Bangalore\n+4	quiscon biotech	0 to 2 Yrs
3	Data Analyst Urgent Recruitment	Bangalore\n+14	divya interprises	0 to 4 Yrs
4	Data Analyst Urgent Recruitment	Bangalore\n+14	divya interprises	0 to 4 Yrs
5	Data Analyst Urgent Recruitment	Bangalore\n+14	divya interprises	0 to 4 Yrs
6	Data Analyst 1	Bangalore	merck ltd	1 to 3 Yrs
7	Clinical Data Analyst	Bangalore\n+6	techno endura	0 to 1 Yr
8	Data Analytics - Analyst	Bangalore	jpmorgan	0 to 4 Yrs
9	Hiring For Data Analyst	Bangalore\n+14	divya interprises	0 to 4 Yrs

Q2:Write a python program to scrape data for “Data Scientist” Job position in“Bangalore” location. Youhave 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:

In [25]:
```
driver = webdriver.Chrome()
```

In [26]:
```
driver.get("https://www.shine.com/")
```

In [28]:
```
time.sleep(15)
allow_btn = driver.find_element(By.XPATH,"/html/body/div/div[2]/div/div/div/div/button")
allow_btn.click()
```

In [30]:
```
click = driver.find_element(By.CLASS_NAME,'searchBarInput')
click.click()
```

In [31]:
```
designation = driver.find_element(By.CLASS_NAME,"form-control")
designation.send_keys("Data Scientist")
```

In [32]:
```
location =driver.find_element(By.XPATH,'/html/body/div/div[4]/div/div[2]/div[2]/div/form/div/div[1]/ul/li[2]/d
location.send_keys("Bangalore")
```

In [34]:
```
search = driver.find_element(By.CLASS_NAME,"searchForm_btnWrap_advance__VYBHN")
search.click()
```

In [35]:
```
time.sleep(15)
allow_btn = driver.find_element(By.XPATH,"/html/body/div[1]/div[2]/div/div/div/div/button")
allow_btn.click()
```

In [36]:
```
close = driver.find_element(By.XPATH,"/html/body/div[1]/div[1]/div[1]/div/div/button")
close.click()
```

In [37]:
```
job_title = []
title_tags =driver.find_elements(By.XPATH,'//h2[@itemprop="name"]//a')
for i in title_tags:
    title = i.text
    job_title.append(title)
```

In [38]:
```
Loc = []

loc_tags = driver.find_elements(By.XPATH,'//div[@class=" jobCard_jobCard_lists_item__YxRkV jobCard_locationIco
for i in loc_tags:
    location =i.text
    Loc.append(location)
```

In [39]:
```
company_name = []
com_tags = driver.find_elements(By.XPATH,'//div[@class="jobCard_jobCard_cName__mYnow"]//span')
for i in com_tags:
    company_name.append(i.text)
```

In [40]:
```
exp_req =[]
exp_tags = driver.find_elements(By.XPATH,'//div[@class=" jobCard_jobCard_lists_item__YxRkV jobCard_jobIcon__3F
for i in exp_tags:
    exp_req.append(i.text)
```

In [41]:
```
df = pd.DataFrame({'Title':job_title,'Location':Loc,'Company Name':company_name,'Experience':exp_req})
df.head(10)
```

Out[41]:

	Title	Location	Company Name	Experience
0	Data Scientist Vacancy	Bangalore\n+14	divya interprises	0 to 4 Yrs
1	Data Scientist Urgent Recruitment	Bangalore\n+14	divya interprises	0 to 4 Yrs
2	Data Scientist- Bangalore	Bangalore	the fashion cosmo	0 to 3 Yrs
3	Data Scientist AI ML CV	Bangalore	bosch group	3 to 5 Yrs
4	Data Scientist-Bangalore	Bangalore	shiva hr services	0 to 3 Yrs
5	Data Scientist AI ML NLP	Bangalore	bosch group	3 to 5 Yrs
6	Phd Data Scientist	Bangalore	bosch group	2 to 5 Yrs
7	Hiring For Data Scientist	Bangalore\n+14	divya interprises	0 to 4 Yrs
8	Data Scientist	Bangalore	racanaa energy solution private lim...	3 to 6 Yrs
9	Staff Data Scientist & Team Lead	Bangalore	true caller	8 to 12 Yrs

Q3: In this question you have to scrape data using the filters available on the webpage 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” lakhs

In [42]:
```
driver = webdriver.Chrome()
```

In [43]:
```
driver.get("https://www.shine.com/")
```

In [44]:
```
time.sleep(15)
allow_btn = driver.find_element(By.XPATH,"/html/body/div/div[2]/div/div/div/div/button")
allow_btn.click()
```

In [45]:
```
click = driver.find_element(By.CLASS_NAME,'searchBarInput')
click.click()
```

In [46]:
```
designation = driver.find_element(By.CLASS_NAME,"form-control")
designation.send_keys("Data Scientist")
time.sleep(3)
designation.click()
```

In [48]:
```
search = driver.find_element(By.CLASS_NAME,"searchForm_btnWrap_advance__VYBHN")
search.click()
```

In [50]:
```
time.sleep(10)
allow_btn = driver.find_element(By.XPATH,"/html/body/div[1]/div[2]/div/div/div/div/button")
allow_btn.click()
```

In [51]:
```
close = driver.find_element(By.XPATH,"/html/body/div[1]/div[1]/div[1]/div/div/button")
close.click()
```

In [52]:
```
Loc_fil = driver.find_element(By.CLASS_NAME,'filter_filter_lists_items__wlFfo')
Loc_fil.click()
```

In [53]:
```
location_name = driver.find_element(By.XPATH,'/html/body/div[1]/div[1]/div[3]/div/div[1]/div/div[2]/div[2]/div/
location_name.click()
```

In [54]:
```
show_result = driver.find_element(By.XPATH,'//div[@class="filter_btnWrap__5ToWy"]//button[2]')
show_result.click()
```

In [55]:
```
sal_fil = driver.find_element(By.XPATH,'/html/body/div[1]/div[1]/div[3]/div/div[1]/div/div[2]/div/ul/li[3]/but
sal_fil.click()
```

In [56]:
```
salary = driver.find_element(By.XPATH,'/html/body/div[1]/div[1]/div[3]/div/div[1]/div/div[2]/div[2]/div/div/di
salary.click()
```

In [57]:
```
show_result = driver.find_element(By.XPATH,'/html/body/div[1]/div[1]/div[3]/div/div[1]/div/div[2]/div[2]/div/d
show_result.click()
```

In [58]:
```
job_title = []
title_tags =driver.find_elements(By.XPATH,'//h2[@itemprop="name"]//a')
for i in title_tags:
    title = i.text
    job_title.append(title)
```

In [59]:
```
Loc = []

loc_tags = driver.find_elements(By.XPATH,'//div[@class=" jobCard_jobCard_lists_item__YxRkV jobCard_locationIco
for i in loc_tags:
    location =i.text
    Loc.append(location)
```

In [60]:
```
company_name = []
com_tags = driver.find_elements(By.XPATH,'//div[@class="jobCard_jobCard_cName__mYnow"]//span')
for i in com_tags:
    company_name.append(i.text)
```

In [61]:
```
exp_req =[]
exp_tags = driver.find_elements(By.XPATH,'//div[@class=" jobCard_jobCard_lists_item__YxRkV jobCard_jobIcon__3F
for i in exp_tags:
    exp_req.append(i.text)
```

In [62]:
```
df = pd.DataFrame({'Title':job_title,'Location':Loc,'Company Name':company_name,'Experience':exp_req})
df.head(10)
```

Out[62]:

	Title	Location	Company Name	Experience
0	Data Scientist- Delhi	Delhi	the fashion cosmo	0 to 3 Yrs
1	Data Scientist-Delhi	Delhi	shiva hr services	0 to 3 Yrs
2	Data Scientist- Delhi	Delhi	the fashion cosmo	0 to 3 Yrs
3	Data Scientist- Delhi	Delhi	the fashion cosmo	0 to 3 Yrs
4	Data Scientist	Delhi\n+4	acme services private limited	3 to 5 Yrs
5	Data Scientist	Delhi\n+6	quiscon biotech	0 to 1 Yr
6	Data Scientist	Delhi\n+4	acme services private limited	3 to 5 Yrs
7	Clinical Data Analyst	Delhi\n+6	techno endura	0 to 1 Yr
8	Data Modeler	Delhi\n+9	v-tech data outsourcing	0 to 2 Yrs
9	Biostatistician	Delhi\n+17	national seeds corporation limited	1 to 6 Yrs

Q4: Scrape data of first 100 sunglasses listings on flipkart.com. You have to scrape four attributes:

In [63]:
```
driver = webdriver.Chrome()
```

In [64]:
```
driver.get("http://www.flipkart.com/")
```

In [65]:
```
close_btn = driver.find_element(By.XPATH,'/html/body/div[3]/div/span')
close_btn.click()
```

In [66]:
```
search_field= driver.find_element(By.CLASS_NAME,"Pke_EE")
search_field.send_keys("sunglasses")
```

In [67]:
```
search_btn = driver.find_element(By.XPATH,'/html/body/div[1]/div/div[1]/div/div/div/div/div[1]/div/div[1]/div/
search_btn.click()
```

In [69]:
```
brand = []
discription = []
MRP =[]
start=0
end =3
for page in range(start,end):

    brand_name = driver.find_elements(By.XPATH,'//div[@class="_2WkVRV"]')
    for i in brand_name:
        brand.append(i.text)
    prod_dis = driver.find_elements(By.XPATH,'//a[@class="IRpwTa"]')
    for i in prod_dis:
        discription.append(i.text)
    price = driver.find_elements(By.XPATH,'//div[@class="_30jeq3"]')
    for i in price:
        MRP.append(i.text)
    next_btn = driver.find_element(By.XPATH,'//a[@class="_1LKTO3"]//span')
    next_btn.click()
    time.sleep(4)
```

In [71]:
```
print(len(discription),len(brand),len(MRP))
```

```
118 120 120
```

In [73]:
```
df = pd.DataFrame({'Brand':brand,'Price':MRP})
```

In [75]:
```
df1 = pd.DataFrame({"Product Discription":discription})
```

In [76]:
```
df2 = pd.concat([df,df1],axis = 1)
df2.head(100)
```

Out[76]:

	Brand	Price	Product Discription
0	ROYAL SON	₹339	Mirrored Aviator Sunglasses (58)
1	VINCENT CHASE	₹703	Polarized, UV Protection Retro Square Sunglass...
2	SRPM	₹149	UV Protection Wayfarer Sunglasses (50)
3	Fastrack	₹549	UV Protection Wayfarer Sunglasses (58)
4	GANSTA	₹79	Night Vision, Riding Glasses Rectangular Sungl...
...	...	...	...
95	Roadster	₹199	UV Protection, Riding Glasses Rectangular Sung...
96	ROYAL SON	₹424	Gradient, UV Protection Rectangular Sunglasses...
97	Singco India	₹396	UV Protection Rectangular Sunglasses (59)
98	GANSTA	₹79	UV Protection Sports, Wrap-around Sunglasses (70)
99	Roadster	₹249	Polarized, UV Protection Wayfarer, Retro Squar...

100 rows × 3 columns

Q5: Scrape 100 reviews data from flipkart.com for iphone11 phone. You have to go the link:

In [77]:
```
driver = webdriver.Chrome()
```

In [78]:
```
driver.get("https://www.flipkart.com/apple-iphone-11-black-64-gb/p/itm4e5041ba101fd?pid=MOBFWQ6BXGJCEYNY&lid=LS
```

In [79]:
```
all_reviews = driver.find_element(By.XPATH,'//div[@class="_3UAT2v _16PBlm"]//span')
all_reviews.click()
```

In [80]:
```
review = []
summery = []
start = 0
end =11
for page in range(start,end):

    rating_name = driver.find_elements(By.XPATH,'//p[@class="_2-N8zT"]')
    for i in rating_name:
        review.append(i.text)
    summery_name = driver.find_elements(By.XPATH,'//div[@class="t-ZTKy"]//div//div')
    for i in summery_name:
        summery.append(i.text)
    next_btn = driver.find_element(By.XPATH,'/html/body/div[1]/div/div[3]/div/div/div[2]/div[13]/div/div/nav/a
    next_btn.click()
    time.sleep(3)
```

In [81]:
```
print(len(review),len(summery))
```

```
110 110
```

In [82]:
```
df = pd.DataFrame({'Reviews':review,"Review Summeries":summery})
df.head(100)
```

Out[82]:

	Reviews	Review Summeries
0	Highly recommended	Awesome Battery Life...Camera clarity is too g...
1	Perfect product!	Photos super
2	Best in the market!	Good Camera
3	Classy product	Camera is awesome\nBest battery backup\nA perf...
4	Worth every penny	Feeling awesome after getting the delivery of ...
...	...	...
95	Simply awesome	Best phone ur money can get specially if u wan...
96	Terrific	Very very good excellent thank you for Flipkart
97	Terrific	Wow I loved this😊❤️thank you Flipkart for show...
98	Brilliant	iPhone camera
99	Wonderful	Why is Apple not giving a charger with any of ...

100 rows × 2 columns

Q6: Scrape data forfirst 100 sneakers you find whenyou visit flipkart.com and search for “sneakers” in the search field.

In [83]:
```
driver = webdriver.Chrome()
```

In [84]:
```
driver.get("http://www.flipkart.com/")
```

In [85]:
```
close_btn = driver.find_element(By.XPATH,'/html/body/div[3]/div/span')
close_btn.click()
```

In [86]:
```
search_field= driver.find_element(By.CLASS_NAME,"Pke_EE")
search_field.send_keys("sneakers")
```

In [87]:
```
search_btn = driver.find_element(By.XPATH,'/html/body/div[1]/div/div[1]/div/div/div/div/div[1]/div/div[1]/div/
search_btn.click()
```

In [88]:
```
brand = []
discription = []
MRP =[]
start=0
end =3
for page in range(start,end):
    #for Brand Name
    brand_name = driver.find_elements(By.XPATH,'//div[@class="_2WkVRV"]')
    for i in brand_name:
        brand.append(i.text)
    # for Product Discription
    prod_dis = driver.find_elements(By.XPATH,'//a[@class="IRpwTa"]')
    for i in prod_dis:
        discription.append(i.text)
    # for price show
    price = driver.find_elements(By.XPATH,'//div[@class="_30jeq3"]')
    for i in price:
        MRP.append(i.text)

    next_btn = driver.find_element(By.XPATH,'/html/body/div/div/div[3]/div[1]/div[2]/div[12]/div/div/nav/a[11]
    next_btn.click()
    time.sleep(4)
```

In [89]:
```
print(len(brand),len(discription),len(MRP))
```

```
120 117 120
```

In [90]:
```
df = pd.DataFrame({'Brand':brand,'Price':MRP})
```

In [91]:
```
df1 = pd.DataFrame({'Product Discription':discription})
```

In [92]:
```
df2 = pd.concat([df,df1],axis=1)
df2.head(100)
```

Out[92]:

	Brand	Price	Product Discription
0	BRUTON	₹497	Combo Pack Of 2 Men's Casual Shoes Sneakers Fo...
1	BRUTON	₹497	!Combo Pack Of 2 Casual Shoes! Sneakers For Men
2	aadi	₹289	Synthetic Leather |Lightweight|Comfort|Summer|...
3	URBANBOX	₹299	Trending Stylish Casual Outdoor Sneakers Shoes...
4	Layasa	₹299	Sneakers For Men
...	...	...	...
95	HRX by Hrithik Roshan	₹924	Rerooted Classics Sneakers For Men
96	RapidBox	₹595	Sneakers For Men
97	Peelu	₹647	Synthetic Leather |Lightweight|Comfort|Summer|...
98	PUMA	₹2,249	Smash V2 Buck Sneakers For Men
99	MEGPAR	₹419	Megpar White New Stylish Look Comfortable Casu...

100 rows × 3 columns

Q7: Go to webpage https://www.amazon.in/ (https://www.amazon.in/) Enter "Laptop" in the search field and then click the search icon. Then set CPU Type filter to "Intel Core i7" as shown in the below image:

In [93]:
```
driver = webdriver.Chrome()
```

In [94]:
```
driver.get("https://www.amazon.in/")
```

In [97]:
```
search_field= driver.find_element(By.ID,'nav-bb-search')
search_field.send_keys("Laptop")
```

In [99]:
```
search_btn = driver.find_element(By.XPATH,'//input[@class="nav-bb-button"]')
search_btn.click()
```

In [100]:
```
cpu = driver.find_element(By.XPATH,'/html/body/div[1]/div[1]/div[1]/div[2]/div/div[3]/span/div[1]/div/div/div[
cpu.click()
```

In [101]:
```
title = []
rating = []
MRP =[]
     #for Brand Name
title_name = driver.find_elements(By.XPATH,'//div[@class="a-section a-spacing-none puis-padding-right-small s-
for i in title_name:
    title.append(i.text)
    # for Product Discription
rating_num = driver.find_elements(By.XPATH,'//span[@class="a-size-base s-underline-text"]')
for i in rating_num:
    rating.append(i.text)
     # for price show
price = driver.find_elements(By.XPATH,'//span[@class="a-price-whole"]')
for i in price:
    MRP.append(i.text)
```

In [102]:
```
print(len(title),len(rating),len(MRP))
```

```
24 21 23
```

In [103]:
```
df = pd.DataFrame({'Title':title})
```

In [104]:
```
df1 = pd.DataFrame({'Price':MRP})
```

In [105]:
```
df2 = pd.DataFrame({'rating':rating})
```

In [107]:
```
df3 = pd.concat([df,df1,df2],axis=1)
df3.head(10)
```

Out[107]:

	Title	Price	rating
0	MSI Modern 14, Intel 12th Gen. i7-1255U, 36CM ...	49,990	23
1	ASUS TUF Gaming F15, 15.6"(39.62 cms) FHD 144H...	68,990	52
2	Lenovo IdeaPad Slim 3 Intel Core i7 11th Gen 1...	52,990	59
3	MSI GF63 Thin, Intel Core i7-11800H, 40CM FHD ...	57,990	150
4	ASUS Vivobook 15, Intel Core i7-12650H 12th Ge...	60,990	330
5	HP Laptop 15s, 12th Gen Intel Core i7-1255U, 1...	63,990	20
6	MSI GF63 Thin, Intel Core i7-11800H, 40CM FHD ...	64,990	96
7	Dell Inspiron 5430 Laptop, Intel Core i7-1360P...	84,990	46
8	Acer Aspire Lite Premium Metal Laptop 11th Gen...	47,990	173
9	Samsung Galaxy Book3 Core i7 13th Gen 1355U - ...	84,390	28

Q8: Write a python program to scrape data for Top 1000 Quotes of All Time.

In [108]:
```
driver = webdriver.Chrome()
```

In [109]:
```
driver.get("https://www.azquotes.com/")
```

In [110]:
```
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 [111]:
```
quotes = []
author = []
type_of_quotes =[]
start = 0
end = 9

for pages in range(start,end):
    quotes_name = driver.find_elements(By.XPATH,'//a[@class="title"]')
    for i in quotes_name:
        quotes.append(i.text)
    author_name = driver.find_elements(By.XPATH,'//div[@class="author"]//a')
    for i in author_name:
        author.append(i.text)
    types = driver.find_elements(By.XPATH,'//div[@class="tags"]')
    for i in types:
        type_of_quotes.append(i.text)
    next_btn = driver.find_element(By.XPATH,'//li[@class="next"]//a')
    next_btn.click()
    time.sleep(2)
```

In [112]:
```
print(len(quotes),len(author),len(type_of_quotes))
```

```
900 900 900
```

In [113]:
```
df = pd.DataFrame({'Quotes':quotes,'Author Name':author,'Type of Quotes':type_of_quotes})
df
```

Out[113]:

	Quotes	Author Name	Type of Quotes
0	The essence of strategy is choosing what not t...	Michael Porter	Essence, Deep Thought, Transcendentalism
1	One cannot and must not try to erase the past ...	Golda Meir	Inspiration, Past, Trying
2	Patriotism means to stand by the country. It d...	Theodore Roosevelt	Country, Peace, War
3	Death is something inevitable. When a man has ...	Nelson Mandela	Inspirational, Motivational, Death
4	You have to love a nation that celebrates its ...	Erma Bombeck	4th Of July, Food, Patriotic
...	...	...	...
895	To love means loving the unlovable. To forgive...	Gilbert K. Chesterton	Love, Inspirational, Success
896	Be brave. Take risks. Nothing can substitute e...	Paulo Coelho	Encouraging, Courage, Inspiration
897	If you really want to do something, you'll fin...	Jim Rohn	Inspirational, Motivational, Success
898	It is neither wealth nor splendor; but tranqui...	Thomas Jefferson	Life, Happiness, Work
899	A thousand words will not leave so deep an imp...	Henrik Ibsen	Inspirational, Inspiring, Positivity

900 rows × 3 columns

Q9: 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/ (https://www.jagranjosh.com/).

In [114]:
```
driver = webdriver.Chrome()
```

In [115]:
```
driver.get("https://www.jagranjosh.com/")
```

In [116]:
```
GK =driver.find_element(By.XPATH,'/html/body/div[1]/header/nav/div/div/div[3]/ul/li[6]/a')
GK.click()
```

In [118]:
```
prime_ministers = driver.find_element(By.XPATH,'/html/body/div[2]/div/div/div[2]/div/div[10]/div/div/ul/li[2]/
prime_ministers.click()
```

In [120]:
```
data = []
table = driver.find_elements(By.XPATH,'//div[@class="table-box"]//table//tbody//tr[2]')
#rows = table.find_element(By.TAG_NAME,'tr')
for row in table:
    cols = row.find_elements(By.TAG_NAME,'td')

    if len(cols) == 5:

        name = cols[0].text
        born_dead = cols[1].text
        term_of_office = cols[2].text
        remarks = cols[3].text
    data.append([name, born_dead, term_of_office, remarks])
```

In [121]:
```
df = pd.DataFrame(data, columns=['Name', 'Born-Dead', 'Term of Office', 'Remarks'])
df
```

Out[121]:

	Name	Born-Dead	Term of Office	Remarks
0	1. Jawahar Lal Nehru	(1889–1964)	15 August 1947 to 27 May 1964\n16 years, 286 days	

Q10: 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/ (https://www.motor1.com/)

In [122]:
```
driver = webdriver.Chrome()
```

In [123]:
```
driver.get("https://www.motor1.com/")
```

In [124]:
```
search_bar = driver.find_element(By.XPATH,'//input[@class="m1-search-panel-input m1-search-form-text"]')
search_bar.send_keys('50 most expensive cars')
```

In [125]:
```
search_btn = driver.find_element(By.XPATH,'//button[@class="m1-search-panel-button m1-search-form-button-anima
search_btn.click()
```

In [126]:
```
world = driver.find_element(By.XPATH,'/html/body/div[10]/div[9]/div/div[1]/div/div/div[2]/div/div[1]/h3/a')
world.click()
```

In [127]:
```
car_name = []
price = []

title_name = driver.find_elements(By.XPATH,'//h3[@class="subheader"]')
for i in title_name:
    car_name.append(i.text)

mrp= driver.find_elements(By.TAG_NAME,'strong')
for i in mrp:
    price.append(i.text)
```

In [128]:
```
print(len(car_name),len(price))
```

```
51 50
```

In [129]:
```
df  = pd.DataFrame({'Car Name':car_name})
```

In [130]:
```
df1 = pd.DataFrame({'Price':price})
```

In [131]:
```
df2 = pd.concat([df,df1],axis=1)
```

In [132]:
```
df2.head(50)
```

Out[132]:

	Car Name	Price
0	Aston Martin Valour	Price: $1.5 Million
1	McLaren Elva	Price: $1.7 Million
2	Czinger 21C	Price: $1.7 Million
3	Ferrari Monza	Price: $1.7 Million
4	Gordon Murray T.33	Price: $1.7 Million
5	Koenigsegg Gemera	Price: $1.7 Million
6	Zenvo TSR-S	Price: $1.7 Million
7	Hennessey Venom F5	Price: $1.8 Million
8	Bentley Bacalar	Price: $1.9 Million
9	Hispano Suiza Carmen Boulogne	Price: $1.9 Million
10	Bentley Mulliner Batur	Price: $2.0 Million
11	Deus Vayanne	Price: $2.0 Million
12	SSC Tuatara	Price: $2.0 Million
13	Lotus Evija	Price: $2.1 Million
14	Aston Martin Vulcan	Price: $2.3 Million
15	Delage D12	Price: $2.3 Million
16	Ferrari Daytona SP3	Price: $2.3 Million
17	McLaren Speedtail	Price: $2.3 Million
18	Rimac Nevera	Price: $2.4 Million
19	Pagani Utopia	Price: $2.5 Million
20	Pininfarina Battista	Price: $2.5 Million
21	Gordon Murray T.50	Price: $2.6 Million
22	Lamborghini Countach	Price: $2.6 Million
23	Mercedes-AMG Project One	Price: $2.7 Million
24	Zenvo Aurora	Price: $2.8 Million
25	Aston Martin Victor	Price: $3.0 Million
26	Hennessey Venom F5 Roadster	$3.0 Million
27	Koenigsegg Jesko	Price: $3.0 Million
28	Aston Martin Valkyrie	Price: $3.2 Million
29	W Motors Lykan Hypersport	Price: $3.4 Million
30	McLaren Solus	$3.5 Million
31	Lamborghini Sian	Price: $3.6 million
32	Koenigsegg CC850	Price: $3.7 Million
33	Bugatti Chiron Super Sport 300+	Price: $3.9 Million
34	Lamborghini Veneno	Price: $4.5 Million
35	Bugatti Bolide	Price: $4.7 Million
36	Pininfarina B95 Speedster	Price: $4.8 Million
37	Bugatti Mistral	Price: $5.0 Million
38	Pagani Huayra Imola	Price: $5.4 Million
39	Bugatti Divo	Price: $5.8 Million
40	SP Automotive Chaos	Price: $6.4 Million
41	Pagani Codalunga	Price: $7.4 Million
42	777 Hypercar	Price: $7.5 Million
43	Mercedes-Maybach Exelero	Price: $8.0 Million
44	Bugatti Centodieci	Price: $9.0 Million
45	Bugatti Chiron Profilée	Price: $10.8 Million
46	Rolls-Royce Sweptail	Price: $12.8 Million

	Car Name	Price
47	Bugatti La Voiture Noire	Price: $13.4 Million
48	Rolls-Royce Boat Tail*	Price: $28.0 Million (est.)
49	Rolls-Royce La Rose Noire Droptail	Price: $30 Million (est.)

In [ ]:

In [ ]: