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

```
Requirement already satisfied: selenium in c:\users\admin\anaconda3\lib\sit
e-packages (4.9.1)
Requirement already satisfied: urllib3[socks]<3,>=1.26 in c:\users\admin\an
aconda3\lib\site-packages (from selenium) (1.26.11)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\admin\anacon
da3\lib\site-packages (from selenium) (0.10.2)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\admin\anacond
a3\lib\site-packages (from selenium) (2022.9.14)
Requirement already satisfied: trio~=0.17 in c:\users\admin\anaconda3\lib\s
ite-packages (from selenium) (0.22.0)
Requirement already satisfied: idna in c:\users\admin\anaconda3\lib\site-pa
ckages (from trio~=0.17->selenium) (3.3)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\admin\a
naconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.1)
Requirement already satisfied: attrs>=19.2.0 in c:\users\admin\anaconda3\li
b\site-packages (from trio~=0.17->selenium) (21.4.0)
Requirement already satisfied: sniffio in c:\users\admin\anaconda3\lib\site
-packages (from trio~=0.17->selenium) (1.2.0)
Requirement already satisfied: outcome in c:\users\admin\anaconda3\lib\site
```

In [2]:
```
import selenium
```

In [3]:
```
from selenium import webdriver
from selenium.webdriver.common.by import By
import pandas as pd
import time

import warnings
warnings.filterwarnings('ignore')
```

In [4]:
```
driver = webdriver.Chrome (r'chromedriver.exe')
```

In [5]:
```
driver.get ('https://www.naukri.com/')
```

In [ ]:
```

```

QUESTION NO. = 1

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/d
location.send_keys('Banglore')
```

In [8]:
```
# here in the above case the 'class name' is same for both 'designatio & locat
# and for location we are using'ABSOLUTE XPATH'
```

In [9]:
```
search = driver.find_element (By.CLASS_NAME, "qsbSubmit")
search.click()
```

In [10]:
```
# now upto here we are having all the pagewise data for "data analyst" for "ba
```

In [ ]:
```

```

In [12]:
```
# now below we are finding and makiing data frame top 10 companies list with me

job_title = []
job_location = []
company_name = []
experiance_required = []


# for job_title :-

title_all = driver.find_elements (By.XPATH,'//a[@class="title ellipsis"]')
for i in title_all [0:10]:
    title = i.text
    job_title.append(title)


#  for job_location :-

location_all = driver.find_elements (By.XPATH, '//span[@class="ellipsis fleft l
for i in location_all [0:10]:
    location = i.text
    job_location.append(location)


# for company_name :-

company_all = driver.find_elements (By.XPATH, '//a[@class="subTitle ellipsis fl
for i in company_all [0:10]:
    name = i.text
    company_name.append(name)


# for experiance_required :-

experiance_required = driver. find_elements (By.XPATH, '//span[@class="ellipsi
for i in experiance_required [0:10]:
    experiance = i.text
    experiance_required.append(experiance)
    exp1 = experiance_required[0:10]
# to identify whether the length of all lists are same or not

len(job_title),len(job_location),len(company_name),len(exp1)
```

Out[12]:
```
(10, 10, 10, 10)
```

In [13]:
```
import pandas as pd
```

In [14]:
```
df = pd.DataFrame({'Job Title':job_title, 'Location':job_location, 'Company':c
df
```

Out[14]:

	Job Title	Location	Company	Experian
0	Data Analyst	Bangalore/Bengaluru	Target	<selenium.webdriver.remote.webelement.WebEleme
1	Tech Data Analyst	Hybrid - Gurgaon/ Gurugram, Haryana, Bangalore...	Wipro	<selenium.webdriver.remote.webelement.WebEleme
2	Data Analyst	Bangalore/ Bengaluru, Karnataka	Artech	<selenium.webdriver.remote.webelement.WebEleme
3	Data Analyst	Bangalore/Bengaluru	Brunel	<selenium.webdriver.remote.webelement.WebEleme
4	Celonis & Salesforce Data Analyst	Chennai, Bangalore/Bengaluru	Hitachi Energy	<selenium.webdriver.remote.webelement.WebEleme
5	Celonis & Salesforce Data Analyst	Bangalore/Bengaluru	Hitachi Ltd.	<selenium.webdriver.remote.webelement.WebEleme
6	Data Analyst	Hybrid - Bangalore/Bengaluru	HARMAN	<selenium.webdriver.remote.webelement.WebEleme
7	Data Analyst	Hybrid - Bangalore/Bengaluru, Delhi / NCR	Aon	<selenium.webdriver.remote.webelement.WebEleme
8	Data Analyst	Hybrid - Bangalore/Bengaluru, Delhi / NCR	Aon	<selenium.webdriver.remote.webelement.WebEleme
9	Data Analyst	Kolkata, Hyderabad/Secunderabad, Pune, Chennai...	Tata Consultancy Services (TCS)	<selenium.webdriver.remote.webelement.WebEleme

In [ ]:
```
```

QUESTION NO. = 2

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

In [16]:
```
designation = driver.find_element (By.CLASS_NAME,"suggestor-input ")
designation.send_keys('Data Scientist')
```

In [17]:
```
location = driver.find_element (By. XPATH, "/html/body/div[1]/div[6]/div/div/d
location.send_keys('Banglore')
```

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

In [19]:
```
ds_job_title = []
ds_job_location = []
ds_company_name = []
ds_experiance_required = []
```

In [20]:
```
title_tag1 = driver.find_elements (By.XPATH,'//a[@class="title ellipsis"]')
for i in title_tag1[0:10]:
    title1 = i.text
    ds_job_title.append(title1)
```

In [21]:
```
len(ds_job_title)
```

Out[21]: 10

In [22]:
```
title_tag2 = driver.find_elements (By.XPATH,'//span[@class="ellipsis fleft locl
for i in title_tag2[0:10]:
    title2 = i.text
    ds_job_location.append(title2)
```

In [23]:
```
len(ds_job_location)
```

Out[23]: 10

In [24]:
```
title_tag3 = driver.find_elements(By.XPATH,'//a[@class="subTitle ellipsis flef
for i in title_tag3[0:10]:
    title3 = i.text
    ds_company_name.append(title3)
```

In [25]:
```
len(ds_company_name)
```

Out[25]: 10

In [26]:
```
title_tag4 = driver.find_elements(By.XPATH,'//span[@class="ellipsis fleft expw
for i in title_tag4[0:10]:
    title4 = i.text
    ds_experiance_required.append(title4)
```

In [27]:
```
len(ds_experiance_required)
```

Out[27]: 10

In [28]:
```
import pandas as pd

df = pd.DataFrame({'Job Tile':ds_job_title, 'Location':ds_job_location, 'Compa
```

In [29]:
```
df
```

Out[29]:

	Job Tile	Location	Company Nmae	Experiance
0	Permanent Opportunity - Data Scientist(Snaplog...	Hybrid - Kolkata, Hyderabad/Secunderabad, Pune...	Deloitte	9-14 Yrs
1	Analystics & Modeling Specialist	Kolkata, Mumbai, Hyderabad/Secunderabad, Pune,...	Accenture	6-8 Yrs
2	Machine Learning (AI) Architect	Kolkata, Mumbai, New Delhi, Hyderabad/Secunder...	Persistent	5-12 Yrs
3	Staff Data Scientist	Bangalore/Bengaluru	Walmart	6-8 Yrs
4	Data Scientist	Bangalore/ Bengaluru, Karnataka	Tata Consultancy Services (TCS)	4-8 Yrs
5	Hiring For Data Scientist	Hybrid - Hyderabad/ Secunderabad, Telangana, C...	Tata Consultancy Services (TCS)	4-9 Yrs
6	Data Scientist	Hybrid - Pune, Bangalore/Bengaluru, Delhi / NC...	Infogain	3-6 Yrs
7	Director/Senior Director - Data Science	Noida, Hyderabad/Secunderabad, Pune, Gurgaon/G...	Axtria India	10-15 Yrs
8	Manager/Senior Manager - Data Science	Noida, Hyderabad/Secunderabad, Pune, Gurgaon/G...	Axtria India	8-12 Yrs
9	Data Scientist	Bangalore/Bengaluru	Ericsson	5-7 Yrs

In [ ]:
```
```

In [ ]:
```
```

Question No.- 3

In [30]:
```
driver.get ('https://www.naukri.com/')
```

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

In [32]:
```
search = driver.find_element(By.CLASS_NAME, 'qsbSubmit')
search.click()
```

In [33]:
```
ds_loc = driver.find_element (By.XPATH,'/html/body/div[1]/div[4]/div/div/sectio
```

In [34]:
```
ds_loc.click()
```

In [35]:
```
ds_sal = driver.find_element (By.XPATH,'/html/body/div[1]/div[4]/div/div/sectio
ds_sal.click()
```

In [36]:
```
ds_job_title_ncr = []
ds_job_location_ncr = []
ds_company_name_ncr = []
ds_experiance_required_ncr = []
```

In [37]:
```
title_ncr = driver.find_elements (By. XPATH, '//a[@class="title ellipsis"]')
for i in title_ncr [0:10]:
    title1 = i.text
    ds_job_title_ncr.append(title1)
```

In [38]:
```
len(ds_job_title_ncr)
```

Out[38]: 10

In [39]:
```
location_ncr = driver.find_elements (By.XPATH,'//span[@class="ellipsis fleft l
for i in location_ncr [0:10]:
    location1 = i.text
    ds_job_location_ncr.append(location1)
```

In [40]:
```
len(ds_job_location_ncr)
```

Out[40]: 10

In [41]:
```
company_ncr = driver.find_elements(By.XPATH,'//a[@class="subTitle ellipsis fle
for i in company_ncr [0:10]:
    company1 = i.text
    ds_company_name_ncr.append(company1)
```

In [42]:
```
len(ds_company_name_ncr)
```

Out[42]: 10

In [43]:
```
experiance_ncr = driver.find_elements(By.XPATH,'//span[@class="ellipsis fleft
for i in experiance_ncr[0:10]:
    exp2 = i.text
    ds_experiance_required_ncr.append(exp2)
```

In [44]:
```
ds_experiance_required_ncr
```

Out[44]:
```
['0-2 Yrs',
 '3-7 Yrs',
 '3-8 Yrs',
 '2-4 Yrs',
 '3-8 Yrs',
 '7-12 Yrs',
 '0-1 Yrs',
 '2-6 Yrs',
 '2-4 Yrs',
 '1-6 Yrs']
```

In [45]:
```
len(ds_experiance_required_ncr)
```

Out[45]: 10

In [46]:
```
import pandas as pd
```

In [47]:
```
df = pd.DataFrame({'Job Title':ds_job_title_ncr,'Job Location': ds_job_locatio
df
```

Out[47]:

	Job Title	Job Location	Company Name	Experiance
0	Junior Data Scientist	Kolkata, Mumbai, New Delhi, Hyderabad/Secunder...	Analytos	0-2 Yrs
1	Data Scientist	Gurgaon/Gurugram, Bangalore/Bengaluru	Blackbuck	3-7 Yrs
2	Data Scientist	Noida	Jubilant Ingrevia Limited	3-8 Yrs
3	Data Scientist	Kolkata, Mumbai, New Delhi, Hyderabad/Secunder...	Analytos	2-4 Yrs
4	Python and ML Trainer	Hyderabad/Secunderabad, New Delhi, Pune, Gurga...	Thescholar	3-8 Yrs
5	Data Scientist	Delhi / NCR	Tata Consultancy Services (TCS)	7-12 Yrs
6	Intern	Gurgaon/Gurugram	Tower Research Capital	0-1 Yrs
7	Lead Assistant Manager	Gurgaon/Gurugram	EXL	2-6 Yrs
8	Data Scientist	Noida	Innovaccer	2-4 Yrs
9	Junior Data Scientist	Gurgaon/Gurugram, United States (USA), Bulgaria	Adidas	1-6 Yrs

In [ ]:
```

```

In [ ]:
```

```

Question No.- 4

In [68]:
```
driver.get ('https://www.flipkart.com')
```

In [69]:
```
search = driver.find_element(By.XPATH,'/html/body/div/div/div[1]/div[1]/div[2]
search.send_keys('sunglasses')
```

In [71]:
```
find = driver.find_element(By.XPATH,'/html/body/div/div/div[1]/div[1]/div[2]/d
find.click()
```

In [72]:
```
sunglasses = driver.find_elements(By.XPATH,'//div[@class="_2WkVRV"]')
len(sunglasses)
```

Out[72]: 40

In [73]:
```
sunglass_brand = []
sun_pro_disc = []
sunglasses_price = []
```

In [ ]:
```

```

In [74]:
```
s_brand = []
start=0
end=3
for page in range(start,end):
    brand = driver.find_elements(By.XPATH,'//div[@class="_2WkVRV"]')
    for i in brand:
        s_brand.append(i.text)
    next_button = driver.find_element (By.XPATH,'//a[@class="_1LKTO3"]')
    next_button.click()
    time.sleep(3)
```

In [75]:
```
sunglasses_brand = s_brand[0:100]
len(sunglasses_brand)
```

Out[75]: 100

In [76]:
```
s_disc = []
start=0
end=3
for page in range(start,end):
    discription = driver.find_elements(By.XPATH,'//a[@class="IRpwTa"]')
    for i in discription:
        s_disc.append(i.text)
    next_button = driver.find_element (By.XPATH,'//a[@class="_1LKTO3"]')
    next_button.click()
    time.sleep(3)
```

In [77]:
```
sun_pro_disc = s_disc[0:100]
len(sun_pro_disc)
```

Out[77]: 100

In [78]:
```
s_price = []
start=0
end=3
for page in range(start,end):
    price = driver.find_elements(By.XPATH,'//div[@class="_30jeq3"]')
    for i in price:
        s_price.append(i.text)
    next_button = driver.find_element (By.XPATH,'//a[@class="_1LKTO3"]')
    next_button.click()
    time.sleep(3)
```

In [79]:
```
sunglasses_price = s_price[0:100]
len(sunglasses_price)
```

Out[79]: 100

In [80]:
```
import pandas as pd
```

In [81]:
```
df = pd.DataFrame({'Brand':sunglasses_brand,'Product Discription':sun_pro_disc
df
```

Out[81]:

	Brand	Product Discription	Price
0	OAKLEY	UV Protection Aviator Sunglasses (57)	₹435
1	ROZZETTA CRAFT	UV Protection Aviator Sunglasses (58)	₹7,239
2	SRPM	UV Protection, Polarized, Mirrored Wayfarer Su...	₹216
3	Elligator	Shield Sunglass	₹213
4	Elligator	UV Protection Round Sunglasses (54)	₹109
...	...	...	...
95	VINCENT CHASE	UV Protection Rectangular Sunglasses (Free Size)	₹5,300
96	Elligator	UV Protection Aviator Sunglasses (Free Size)	₹149
97	Fastrack	UV Protection Wayfarer Sunglasses (62)	₹569
98	PIRASO	UV Protection Rectangular Sunglasses (52)	₹214
99	VINCENT CHASE	UV Protection Wayfarer Sunglasses (62)	₹6,389

100 rows × 3 columns

In [ ]:
```
```

Question No.-5

In [82]:
```
driver.get ('https://www.flipkart.com')
```

In [ ]:
```
search = driver.find_element(By.XPATH,'/html/body/div/div/div[1]/div[1]/div[2]/
search.send_keys('apple iphone 11 black 64 gb')
```

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

In [ ]:
```
phone = driver .find_element(By.CLASS_NAME,'_4rR01T')
phone.click()
```

In [ ]:
```
rating_all = []
review_summary = []
full_review = []
```

In [ ]:
```
star_rating = driver.find_elements(By.XPATH,'//div[@class="_3LWZlK _1BLPMq"]')
```

In [ ]:
```
star_rating
```

In [ ]:
```
# i think there is problem with above "flipkart code", because i have tried soc
# 'absolute-xpath', 'relative-xpath', but always the output list is shown empty
# -kart other products / questions.  so unable to this particular question. PLl
```

In [ ]:
```

```

Question No.- 6

In [83]:
```
driver.get ('https://www.flipkart.com')
```

In [84]:
```
search = driver.find_element(By.XPATH,'/html/body/div/div/div[1]/div[1]/div[2]/
search.send_keys('sneakers')
```

In [85]:
```
find_button = driver.find_element(By.XPATH,'/html/body/div/div/div[1]/div[1]/d
find_button.click()
```

In [86]:
```
brand_all = []
discription_all = []
price_all = []
```

In [87]:
```
brand = driver.find_elements(By.XPATH,'//div[@class="_2WkVRV"]')
for i in brand [0:40]:
    brand1 = i.text
    brand_all.append(brand1)
```

In [88]:
```
len(brand_all)
```

Out[88]: 40

In [89]:
```
brand_name = []
```

In [90]:
```
start=0
end=3
for page in range (start,end):
    name = driver.find_elements(By.XPATH,'//div[@class="_2WkVRV"]')
    for i in name:
        brand_name.append(i.text)
    next_button = driver.find_element (By.XPATH,'//a[@class="_1LKTO3"]')
    next_button.click()
    time.sleep(3)
```

In [91]:
```
len(brand_name)
```

Out[91]: 120

In [92]:
```
brand_all = brand_name[0:100]
len(brand_all)
```

Out[92]: 100

In [93]:
```
disc = []
start=0
end=3
for page in range (start,end):
    discription = driver.find_elements (By.XPATH,'//a[@class="IRpwTa"]')
    for i in discription:
        disc.append(i.text)
    next_button = driver.find_element (By.XPATH,'//a[@class="_1LKTO3"]')
    next_button.click()
    time.sleep(3)
```

In [94]:
```
discription_all = disc[0:100]
len(discription_all)
```

Out[94]: 100

In [95]:
```
price = []
start=0
end=3
for page in range(start,end):
    rate = driver.find_elements(By.XPATH,'//div[@class="_30jeq3"]')
    for i in rate:
        price.append(i.text)
    next_button = driver.find_element (By.XPATH,'//a[@class="_1LKTO3"]')
    next_button.click()
    time.sleep(3)
```

In [96]:
```
price_all = price [0:100]
len(price_all)
```

Out[96]: 100

In [97]:
```
len(brand_all),len(discription_all),len(price_all)
```

Out[97]: (100, 100, 100)

In [98]:
```
import pandas as pd
```

In [99]:
```
df = pd.DataFrame({'Brand Name':brand_all,'Product Discription':discription_al
df
```

Out[99]:

	Brand Name	Product Discription	Price
0	CAMPUS	White Sneaker For Men Sneakers For Men	₹1,849
1	New Balance	2006 Trenddy Fashion Sporty Casuals Sneakers R...	₹399
2	aadi	Modern Trendy Shoes Sneakers For Men	₹249
3	BIRDE	Combo Pack Of 2 Casual Shoes Sneakers For Men	₹479
4	HIGHLANDER	Stylish & Trending Outdoor Walking Comfortable...	₹599
...	...	...	...
95	KILLER	WATERPROOF-05cFULLBLACK Sneakers For Men	₹569
96	Krors	Sneakers For Men	₹399
97	Field Care	Stylish Trendy Outdoor High Ankle Jordan Boots...	₹524
98	aadi	Sneakers For Men	₹249
99	World Wear Footwear	Stylish & Trending Outdoor Walking Comfortable...	₹369

100 rows × 3 columns

In [ ]:
```
```

Question No.- 7

In [100]:
```
driver = webdriver.Chrome (r'chromedriver.exe')
```

In [101]:
```
driver.get('https://www.amazon.in/')
```

In [102]:
```
title_all =[]
ratings_all =[]
price_all =[]
```

In [103]:
```
title_tag = driver.find_element(By.XPATH,'/html/body/div[1]/header/div/div[1]/
title_tag.send_keys('LAPTOP')
```

In [104]:
```
search_button = driver.find_element(By.XPATH,'/html/body/div[1]/header/div/div
search_button.click()
```

In [105]:
```
filter_cpu = driver.find_element(By.XPATH,'/html/body/div[1]/div[2]/div[1]/div
filter_cpu.click()
```

In [ ]:
```

```

In [106]:
```
laptop_title = driver.find_elements(By.XPATH,'//span[@class="a-size-medium a-c
for i in laptop_title[0:10]:
    laptop = i.text
    title_all.append(laptop)
```

In [107]:
```
title_all = laptop_title[0:10]
```

In [108]:
```
len(title_all)
```

Out[108]: 10

In [ ]:
```

```

In [109]:
```
laptop_rating = driver.find_elements(By.XPATH,'//span[@class="a-icon-alt"]')
for i in laptop_rating[0:10]:
    rating = i.text
    ratings_all.append(laptop)
```

In [110]:
```
ratings_all = laptop_rating[0:10]
len(ratings_all)
```

Out[110]: 10

In [111]:
```
laptop_price = driver.find_elements(By.XPATH,'//span[@class="a-price-whole"]')
for i in laptop_price[0:10]:
    price1 = i.text
    price_all.append(price1)
```

In [112]:
```
price_all = laptop_price[0:10]
len(price_all)
```

Out[112]: 10

In [113]:
```
len(title_all),len(ratings_all),len(price_all)
```

Out[113]: (10, 10, 10)

In [ ]:

In [114]:
```
import pandas as pd
```

In [115]:
```
df = pd.DataFrame({'Title':title_all,'Ratings':ratings_all,'Price':price_all})
df
```

Out[115]:

	Title	Ratin
0	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme
1	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme
2	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme
3	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme
4	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme
5	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme
6	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme
7	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme
8	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme
9	<selenium.webdriver.remote.webelement.WebEleme...	<selenium.webdriver.remote.webelement.WebEleme

In [ ]:

In [ ]:

Question- 8

In [137]:
```
driver.get ('https://www.azquotes.com/')
```

In [138]:
```
top_quotes = driver .find_element(By.XPATH,'/html/body/div[1]/div[1]/div[1]/di
top_quotes.click()
```

In [139]:
```
quotes = []
author = []
type_of_quotes = []
```

In [154]:
```
# start=0
# end=10
# for page in range (start,end):
#     quotes_tag = driver.find_elements(By.XPATH,'//a[@class="title"]')
#     for i in quotes_tag:
#         quotes.append(i.text)
#     next_button = driver.find_element(By.XPATH,'/html/body/div[1]/div[2]/div/
#     next_button.click()
#     time.sleep(5)
```

In [155]:
```
quotes_tag = driver.find_elements(By.XPATH,'//a[@class="title"]')
for i in quotes_tag[0:100]:
    quot = i.text
    quotes.append(quot)
```

In [159]:
```
quotes_all = quotes[0:100]
```

In [160]:
```
len(quotes_all)
```

Out[160]: 100

In [ ]:
```

```

In [163]:
```
author = []
author_tag = driver.find_elements(By.XPATH,'//div[@class="author"]')
for i in author_tag[0:100]:
    auth = i.text
    author.append(auth)
```

In [166]:
```
len(author)
```

Out[166]: 100

In [ ]:
```

```

In [168]:
```
type_of_quote = []
type_tag = driver.find_elements(By.XPATH,'//div[@class="tags"]')
for i in type_tag[0:100]:
    typ = i.text
    type_of_quote.append(typ)
```

In [170]:
```
len(type_of_quote)
```

Out[170]: 100

In [ ]:
```

```

In [172]:
```
import pandas as pd
```

In [173]:
```
df = pd.DataFrame({'Quote':quotes_all,'Author':author,'Type Of Quote':type_of_
df
```

Out[173]:

	Quote	Author	Type Of Quote
0	The essence of strategy is choosing what not t...	Michael Porter	If you want to make a permanent change, stop f...
1	One cannot and must not try to erase the past ...	Golda Meir	If you want to make a permanent change, stop f...
2	Patriotism means to stand by the country. It d...	Theodore Roosevelt	If you want to make a permanent change, stop f...
3	Death is something inevitable. When a man has ...	Nelson Mandela	If you want to make a permanent change, stop f...
4	You have to love a nation that celebrates its ...	Erma Bombeck	If you want to make a permanent change, stop f...
...	...	...	...
95	When the going gets weird, the weird turn pro.	Hunter S. Thompson	If you want to make a permanent change, stop f...
96	When a train goes through a tunnel and it gets...	Corrie Ten Boom	If you want to make a permanent change, stop f...
97	If you think you are too small to make a diffe...	Dalai Lama	If you want to make a permanent change, stop f...
98	God doesn't require us to succeed, he only req...	Mother Teresa	If you want to make a permanent change, stop f...
99	Change your thoughts and you change your world.	Norman Vincent Peale	If you want to make a permanent change, stop f...

100 rows × 3 columns

In [ ]:
```

```

Question No-9

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

In [10]:
```
gk = driver.find_element(By.XPATH,'/html/body/div/div/div/div[1]/div/div[3]/di
gk.click()
```

In [11]:
```
pm_india = driver.find_element(By.XPATH,'/html/body/div[1]/div/div/div[2]/div/
pm_india.click()
```

In [17]:
```
pm_name_all = []
pm_name = driver.find_elements(By.TAG_NAME,'p')
for i in pm_name:
    pm = i.text
    pm_name_all.append(pm)
```

In [34]:
```
pm1 = pm_name_all[14::3]
```

In [38]:
```
pm_all = pm1[0::2]
```

In [139]:
```
pm_all.pop()
pm_all.pop()
pm_all.append('Narendra Modi')
```

In [140]:
```
len(pm_all)
```

Out[140]: 19

In [57]:
```
born = pm_name_all[15::2]
```

In [61]:
```
born_date = born[0::3]
```

In [142]:
```
born_date.pop()
```

Out[142]: 'Also, Read the following:'

In [ ]:
```

```

In [143]:
```
len(born_date)
```

Out[143]: 19

In [100]:
```
term = pm_name_all[16::1]
```

In [106]:
```
term_new = term[0::3]
```

In [111]:
```
term_all = term_new[0::2]
```

In [144]:
```
term_all.pop()
```

Out[144]: ''

In [145]:
```
len(term_all)
```

Out[145]: 19

In [ ]:

```
```

In [119]:

```
remark = pm_name_all[18::3]
```

In [122]:

```
remark_all = remark[0::2]
```

In [129]:

```
remark_all
```

Out[129]:

```
['The first prime minister of India and the longest-serving PM of India, the
first to die in office.',
 'First acting PM of India',
 "He has given the slogan of 'Jai Jawan Jai Kisan' during the Indo-Pak war of
1965",
 '-',
 'First female Prime Minister of India',
 'Oldest to become PM (81 years old) and first to resign from office',
 'Only PM who did not face the Parliament',
 'The first lady who served as PM for the second term',
 'Youngest to become PM (40 years old)',
 'First PM to step down after a vote of no confidence',
 'He belongs to  Samajwadi Janata Party',
 'First PM from South India',
 'PM for shortest tenure',
 'He belongs to  Janata Dal',
 '------',
 ' The first non-congress PM who completed a full term as PM',
 ' First Sikh PM']
```

In [131]:

```
remark_all.append('4th Prime Minister of India who served two consecutive tenu
```

In [132]:

```
remark_all.append('First non-congress PM with two consecutive tenures')
```

In [147]:

```
remark_all.pop()
```

Out[147]:

```
'-'
```

In [148]:

```
len(remark_all)
```

Out[148]:

```
19
```

In [ ]:

```
```

In [137]:

```
import pandas as pd
```

In [149]:
```
df = pd.DataFrame({'Name':pm_all,'Born-Dead':born_date,'Term of office':term_a
df
```

Out[149]:

	Name	Born-Dead	Term of office	Remark
0	Jawahar Lal Nehru	(1889–1964)	15 August 1947 to 27 May 1964	The first prime minister of India and the long...
1	Gulzarilal Nanda (Acting)	(1898-1998)	27 May 1964 to 9 June 1964,	First acting PM of India
2	Lal Bahadur Shastri	(1904–1966)	9 June 1964 to 11 January 1966	He has given the slogan of 'Jai Jawan Jai Kisa...
3	Gulzari Lal Nanda (Acting)	(1898-1998)	11 January 1966 to 24 January 1966	-
4	Indira Gandhi	(1917–1984)	24 January 1966 to 24 March 1977	First female Prime Minister of India
5	Morarji Desai	(1896–1995)	24 March 1977 to 28 July 1979	Oldest to become PM (81 years old) and first t...
6	Charan Singh	(1902–1987)	28 July 1979 to 14 January 1980	Only PM who did not face the Parliament
7	Indira Gandhi	(1917–1984)	14 January 1980 to 31 October 1984	The first lady who served as PM for the second...
8	Rajiv Gandhi	(1944–1991)	31 October 1984 to 2 December 1989	Youngest to become PM (40 years old)
9	V. P. Singh	(1931–2008)	2 December 1989 to 10 November 1990	First PM to step down after a vote of no confi...
10	Chandra Shekhar	(1927–2007)	10 November 1990 to 21 June 1991	He belongs to Samajwadi Janata Party
11	P. V. Narasimha Rao	(1921–2004)	21 June 1991 to 16 May 1996	First PM from South India
12	Atal Bihari Vajpayee	(1924- 2018)	16 May 1996 to 1 June 1996	PM for shortest tenure
13	H. D. Deve Gowda	(born 1933)	1 June 1996 to 21 April 1997	He belongs to Janata Dal
14	Inder Kumar Gujral	(1919–2012)	21 April 1997 to 19 March 1998	------
15	Atal Bihari Vajpayee	(1924-2018)	19 March 1998 to 22 May 2004	The first non-congress PM who completed a ful...
16	Manmohan Singh	(born 1932)	22 May 2004 to 26 May 2014	First Sikh PM
17	Narendra Modi	(born 1950)	26 May 2014 - 2019	4th Prime Minister of India who served two con...
18	Narendra Modi	30 May 2019- Incumbent	First non-congress PM with two consecutive ten...	First non-congress PM with two consecutive ten...

In [ ]:
```

```

Question No-10

In [ ]:
```
driver = webdriver.Chrome (r'chromedriver.exe')
```

In [16]:
```
driver.get ('https://www.motor1.com/')
```

In [17]:
```
search = driver.find_element(By.XPATH,'/html/body/div[3]/div[2]/div/div/div[3]/
search.click()
```

In [18]:
```
find_new = driver.find_element(By.XPATH,'/html/body/div[3]/div[2]/div/div/div[
find_new.send_keys('50 most expensive cars')
```

In [19]:
```
find_button = driver.find_element(By.XPATH,'/html/body/div[3]/div[2]/div/div/d
find_button.click()
```

In [20]:
```
search_50 = driver.find_element(By.XPATH,'/html/body/div[3]/div[9]/div/div[1]/
search_50.click()
```

In [21]:
```
car_new = []
car_name = driver.find_elements(By.XPATH,'//h3[@class="subheader"]')
for i in car_name:
    car = i.text
    car_new.append(car)
```

In [22]:
```
car_all = car_new [0:50]
len(car_all)
```

Out[22]:
```
50
```

In [23]:
```
car_all
```

Out[23]:
```
['De Tomaso P72',
 'Ferrari LaFerrari',
 'Pagani Huayra',
 'McLaren Elva',
 'Czinger 21C',
 'Ferrari Monza',
 'Gordon Murray T.33',
 'Koenigsegg Gemera',
 'Zenvo TSR-S',
 'Hennessey Venom F5',
 'Bentley Bacalar',
 'Hispano Suiza Carmen Boulogne',
 'Bentley Mulliner Batur',
 'Deus Vayanne',
 'SSC Tuatara',
 'Lotus Evija',
 'Aston Martin Vulcan',
 'Delage D12',
 'McLaren Speedtail',
 'Rimac Nevera',
 'Pagani Utopia',
 'Pininfarina Battista',
 'Ferrari FXX K Evo',
 'Gordon Murray T.50',
 'Lamborghini Countach',
 'Mercedes-AMG Project One',
 'Aston Martin Victor',
 'Hennessey Venom F5 Roadster',
 'Koenigsegg Jesko',
 'Aston Martin Valkyrie',
 'W Motors Lykan Hypersport',
 'McLaren Solus',
 'Pagani Huayra Roadster BC',
 'Bugatti Chiron Pur Sport',
 'Lamborghini Sian',
 'Koenigsegg CC850',
 'Bugatti Chiron Super Sport 300+',
 'Lamborghini Veneno',
 'Bugatti Bolide',
 'Bugatti Mistral',
 'Pagani Huayra Imola',
 'Bugatti Divo',
 'SP Automotive Chaos',
 'Pagani Codalunga',
 'Mercedes-Maybach Exelero',
 'Bugatti Centodieci',
 'Bugatti Chiron Profilée',
 'Rolls-Royce Sweptail',
 'Bugatti La Voiture Noire',
 'Rolls-Royce Boat Tail*']
```

In [212]:
```
price_new = []
price_all = driver.find_elements(By.XPATH,"//p[contains(@text, 'Price:')]")
for i in price_all:
    price = i.text
    price_new.append(price)
```

In [ ]:
```
# sorry unable to fetch price data, please support on this issue
```

In [ ]:
```

```