




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 making 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 :
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 f
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':company_name})
df
```

Out[14]:

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

```
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('Bangalore')
```

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

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

```
In [20]: title_tag1 = driver.find_elements (By.XPATH, '//*[@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 loc')
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 fleft')
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_experience_required.append(title4)
```

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

```
Out[27]: 10
```

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

df = pd.DataFrame({'Job Title':ds_job_title, 'Location':ds_job_location, 'Compan
```

In [29]: df

Out[29]:

	Job Title	Location	Company Name	Experience
0	Permanent Opportunity - Data Scientist(Snaplog...	Hybrid - Kolkata, Hyderabad/Secunderabad, Pune...	Deloitte	9-14 Yrs
1	Analytics & 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/section')

In [34]: ds\_loc.click()

In [35]: ds\_sal = driver.find\_element (By.XPATH, '/html/body/div[1]/div[4]/div/div/section')  
ds\_sal.click()

```
In [36]: ds_job_title_ncr = []  
ds_job_location_ncr = []  
ds_company_name_ncr = []  
ds_experience_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]: experience_ncr = driver.find_elements(By.XPATH, '//span[@class="ellipsis fleft l')  
for i in experience_ncr[0:10]:  
    exp2 = i.text  
    ds_experience_required_ncr.append(exp2)
```

```
In [44]: ds_experience_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 [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="_1LKT03"]')
    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="_1LKT03"]')
    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="_1LKT03"]')
    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="_3LWZ1K _1BLPMq"]')
```

```
In [ ]: star_rating
```

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

```
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="_1LKT03"]')
    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="_1LKT03"]')
    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="_1LKT03"]')
    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_all,
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]/c
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-co
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 [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_quote},
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 [ ]:
```

```
In [ ]:
```

```
In [ ]:
```