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

```
Requirement already satisfied: selenium in c:\programdata\anaconda3\lib\site-packages (4.1.0)
Requirement already satisfied: trio~=0.17 in c:\programdata\anaconda3\lib\site-packages (from selenium) (0.19.0)
Requirement already satisfied: urllib3[secure]~=1.26 in c:\programdata\anaconda3\lib\site-packages (from selenium
) (1.26.4)
Requirement already satisfied: trio-websocket~=0.9 in c:\programdata\anaconda3\lib\site-packages (from selenium)
(0.9.2)
Requirement already satisfied: idna in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.
10)
Requirement already satisfied: cffi>=1.14 in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->seleniu
m) (1.14.5)
Requirement already satisfied: outcome in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->selenium)
(1.1.0)
Requirement already satisfied: sortedcontainers in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->s
elenium) (2.3.0)
Requirement already satisfied: sniffio in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->selenium)
(1.2.0)
Requirement already satisfied: attrs>=19.2.0 in c:\programdata\anaconda3\lib\site-packages (from trio~=0.17->sele
nium) (20.3.0)
Requirement already satisfied: async-generator>=1.9 in c:\programdata\anaconda3\lib\site-packages (from trio~=0.1
7->selenium) (1.10)
Requirement already satisfied: pycparser in c:\programdata\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.
17->selenium) (2.20)
Requirement already satisfied: wsproto>=0.14 in c:\programdata\anaconda3\lib\site-packages (from trio-websocket~=
0.9->selenium) (1.0.0)
Requirement already satisfied: pyOpenSSL>=0.14 in c:\programdata\anaconda3\lib\site-packages (from urllib3[secure
]~=1.26->selenium) (20.0.1)
Requirement already satisfied: certifi in c:\programdata\anaconda3\lib\site-packages (from urllib3[secure]~=1.26-
>selenium) (2020.12.5)
Requirement already satisfied: cryptography>=1.3.4 in c:\programdata\anaconda3\lib\site-packages (from urllib3[se
cure]~=1.26->selenium) (3.4.7)
Requirement already satisfied: six>=1.5.2 in c:\programdata\anaconda3\lib\site-packages (from pyOpenSSL>=0.14->ur
llib3[secure]~=1.26->selenium) (1.15.0)
Requirement already satisfied: h11<1,>=0.9.0 in c:\programdata\anaconda3\lib\site-packages (from wsproto>=0.14->t
rio-websocket~=0.9->selenium) (0.13.0)
```

```python
In [3]: import pandas as pd
        import numpy as np
        from selenium import webdriver
        import warnings
        warnings.filterwarnings('ignore')
```

```python
In [3]: driver=webdriver.Chrome('chromedriver.exe')
```

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

```python
In [5]: srh_job=driver.find_element_by_class_name('suggestor-input ')
        srh_job
```

```
Out[5]: <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="8837fd75-6
        b9e-4a87-a9ef-136e81f726d0")>
```

```python
In [6]: srh_job.send_keys('Data Analyst')
```

```python
In [7]: loc_job=driver.find_element_by_xpath('/html/body/div/div[2]/div[3]/div/div/div[3]/div/div/div/input')
        loc_job
```

```
Out[7]: <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="0836157a-1
        caf-405c-8d9f-8c7384cd8a8e")>
```

```python
In [8]: loc_job.send_keys('Bangalore')
```

```python
In [9]: srh_btn=driver.find_element_by_class_name('qsbSubmit')
        srh_btn.click()
```

```
In [10]:    job_tags=driver.find_elements_by_xpath('//a[@class="title fw500 ellipsis"]')
```

```
In [11]:    job_tags
```

```
Out[11]:   [<selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="f134135b-
            3499-44c1-9bd6-3961d1dfaf08")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="48d3305c-
            c667-4363-aab0-88b74b462c94")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="06a5d5c6-
            ed95-481b-849b-651a8eb63d3c")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="16231a63-
            a0b2-4284-863d-7d2b87d4727b")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="322738fe-
            032d-4203-875f-70bae2e4c997")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="067800f2-
            3362-4788-9f31-d0447dfd6fd3")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="b36ded32-
            abf0-48e0-812d-a81ae3552308")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="77a553d7-
            606e-46f5-baed-40d79d6bd9bd")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="00316463-
            b8df-480b-9b31-9ab5f7e9e644")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="65bfab01-
            d533-4b5c-8e76-b8c08f151541")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="9aa63791-
            7ed6-400f-aa0c-4430707715c8")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="95ce318f-
            ea66-4baf-9598-b58451698219")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="23774d27-
            4288-4503-b293-7553b584a4d5")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="3cb0495f-
            c9d1-4430-b1dc-2bc44feaeb7e")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="daa22255-
            3861-4797-a594-fe0a16fbac24")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="c9f7ffe5-
            fe11-4a4d-8d20-48aa675d1295")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="33233a00-
            942e-431d-b6a3-8481c9109c07")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="6551b08d-
            2a47-48f0-aaa1-8eeafef9f9ff")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="a08ebdfb-
            5ac8-4483-8812-a8d423cad7ad")>,
             <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="62ec8a72-
            3ff5-444d-bb9a-d143bd7b9f06")>]
```

```
In [12]:    len(job_tags)
```

```
Out[12]:   20
```

```
In [13]:    job_titles=[]
            for i in job_tags:
                job_titles.append(i.text)

            job_titles
```

```
Out[13]:   ['Senior Data Analyst',
             'Senior Data Analyst - Data Modeling/Database Design',
             'Data analyst',
             'Data Analyst',
             'Financial Data Analyst',
             'Data Analyst',
             'OYO Rooms - Data Analyst / Business Analyst',
             'Data Analyst - Python/SQL',
             'Data Analyst - IT',
             'Senior Data Analyst - Collibra',
             'Business Analyst/Data Analyst',
             'Senior Data Analyst - KPO',
             'Consultant - Data Analyst',
             'Analyst / Senior Analyst— Risk & Information Management, Data Science',
             'Lead CLR Data Analyst',
             'Data Analyst',
             'Data analyst',
             'Pipeline/Piping Data Analyst Trainee',
             'Data Analyst',
             'Data Analyst']
```

```
In [14]: location=driver.find_elements_by_xpath('//li[@class="fleft grey-text br2 placeHolderLi location"]')
```

```
In [15]: location
```

Out[15]: [<selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="958b3007-
d0ee-40f1-8abf-c35fd2fbd19d")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="de8be528-
69e5-4950-91df-a46571e3c029")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="1d9d8d12-
96ea-4bb0-a117-d03d5a6fc5d2")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="2024ddf3-
67b1-49c0-86eb-e96eee94d664")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="8342de2c-
6a2a-43ac-a4b6-bffc085319a1")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="ce62eac4-
f695-4a10-9060-757fc4f74b6e")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="2dff2d39-
1d7e-4520-8dc2-cf440ebc30d4")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="219c59f6-
23d1-48b6-960e-3b9340b88a8e")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="b4908ad9-
423f-4c88-bf6c-715b3e426685")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="0d903c1f-
82e4-4821-a89a-037f2afedbb2")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="a84f2537-
f2d4-427b-a3bb-0a43d7fec343")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="3ddbcf7d-
1118-4c16-b1fc-698d53e0b1de")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="ec30cb75-
0b80-4475-9846-125925b1e956")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="91850f04-
6428-40df-b2ce-6a6f66eec8b5")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="de3e87a0-
63a6-47ae-95e0-a25fa50e8977")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="19b4a35f-
a4b0-4ed7-bcf6-c7e2807e36c1")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="c09d1d6d-
ef1b-4185-822b-67dfff8bc581")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="5b1d057c-
7500-4c64-9feb-5b3a8895b78f")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="80911088-
08ec-4c37-9730-6d60333134f3")>,
 <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="aa200921-
a7e1-4ddf-be03-a7f9a37e13e2")>]

```
In [16]: loc=[]
         for i in location:
             loc.append(i.text)

         loc
```

Out[16]: ['Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru, Delhi / NCR, Mumbai (All Areas)',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Hyderabad/Secunderabad, Bangalore/Bengaluru, Delhi / NCR',
 'Gurgaon/Gurugram, Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Gurgaon/Gurugram, Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Mumbai, Pune, Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru(HSR Layout +7)',
 'Bangalore/Bengaluru']

```
In [17]: company=driver.find_elements_by_xpath('//a[@class="subTitle ellipsis fleft"]')
```

```
In [18]:   company
```

Out[18]:   [<selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="6c3dea95-
           8307-4f19-8bec-0f65468afd70")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="13501155-
           620a-421b-952d-dea5c49a86e4")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="1f61adcc-
           1957-4f2d-aef4-b68cf9f75ebb")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="1048ac09-
           bbee-4f2b-8ed3-baf0dfd6d5d2")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="140bde53-
           f47d-4376-989c-e7b0601317e2")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="a481883b-
           e461-4096-9f8b-c558fb7a09d8")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="c3728537-
           9cbb-4163-8042-26d0cc3afb50")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="771ee561-
           e01a-4b67-9cda-a22f465af851")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="bd02ea82-
           c20e-4c97-8cb3-5141224e0566")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="593dbb53-
           03ce-4b6c-be6d-d21790275e8e")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="7245cd55-
           62d2-4911-8328-afe151ae6c5d")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="1c5aa5c0-
           c86e-49a5-9bf9-9037e9f7570c")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="35d960ee-
           514a-4eca-b201-ddb729e467b7")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="74804ebb-
           3ab0-45ef-bc82-24f292554898")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="c0924e2a-
           f5cb-4e82-b3c6-d6acbab48f08")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="ca6073c3-
           f667-45b7-b4aa-b143b49567e2")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="9f60d80e-
           d5fc-4cf2-84c5-5040af1dfbda")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="4c2e7f5c-
           4033-4081-b9ee-e98b4734b5bd")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="c3085415-
           3788-45ed-ad99-e054b77dea80")>,
            <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="821e5b0a-
           32cb-4dde-8237-d70846f43bc3")>]

```
In [19]:   comp=[]
           for i in company:
               comp.append(i.text)

           comp
```

Out[19]:   ['Flipkart',
            'K & R Enterprises',
            'GSK India',
            'GSK India',
            "Moody's",
            'Aldius Consulting Services Pvt Ltd (Paramantra)',
            'OyoRooms',
            'Affine',
            'Yespired',
            'Shell',
            'Telamon HR Solutions',
            'Huquo Consulting Pvt. Ltd',
            'Flipkart',
            'American Express',
            'Target',
            'National Entrepreneurship',
            'GSK India',
            'TIMS SOLUTIONS PRIVATE LIMITED',
            'Insure Pro 2.0',
            'BERKMEER INDIA PRIVATE LIMITED']

```
In [20]:   expirence=driver.find_elements_by_xpath('//span[contains(@title,"Yrs")]')
```

```
In [21]:   expirence
```

```
Out[21]: [<selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="cfd6a2a1-
         9a8e-4bdf-ab7a-665e172a6ec0")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="7af49a52-
         9f0f-4174-911b-11727841cf57")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="3aa55b07-
         8131-4378-b858-1df7b9db87d9")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="0daa477a-
         d464-4421-b98b-66785d98dbc4")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="db6d457b-
         a79b-4744-93e8-66a28933766b")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="5a233c3f-
         31a6-443c-ab33-a6f7fc5e22e6")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="c0f82e84-
         c1a4-437a-ab39-d0487f296075")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="c34248d8-
         58a2-4a4e-8757-eeed66a85c4f")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="6a072146-
         f742-42e9-8289-2bea637eb4fd")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="06dc5287-
         8bb8-4db4-b924-fecd4de0d883")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="7020bd2e-
         e992-48cd-99f7-9d5d1304e526")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="2f382086-
         58ec-4198-b6e5-e256ed80edf6")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="7cc77b79-
         546b-4a72-9954-b7407ec62692")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="aad09a9e-
         0e33-4706-9fed-37957d24ee55")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="9d5a00f3-
         ef77-4ca4-aa14-a84faf1e90b6")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="961c01d8-
         bb33-4a3d-a15a-7f9dcf277851")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="c3d7c910-
         9fcb-42b4-ae00-c18e89343dda")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="6fa52826-
         31d0-4391-8dd0-2e314808b9c2")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="e8ab9ea8-
         5632-46e7-9c46-a7f033747b16")>,
          <selenium.webdriver.remote.webelement.WebElement (session="521c017da9d24bebc8faa589d078178c", element="f8c7faef-
         8a27-4228-b5bd-933bb272131f")>]
```

```python
In [22]: exp=[]
         for i in expirence:
             exp.append(i.text)

         exp
```

```
Out[22]: ['4-6 Yrs',
          '4-6 Yrs',
          '5-9 Yrs',
          '7-10 Yrs',
          '0-2 Yrs',
          '0-2 Yrs',
          '2-6 Yrs',
          '3-5 Yrs',
          '3-8 Yrs',
          '8-12 Yrs',
          '3-5 Yrs',
          '7-12 Yrs',
          '1-3 Yrs',
          '0-5 Yrs',
          '7-12 Yrs',
          '3-7 Yrs',
          '5-9 Yrs',
          '0-4 Yrs',
          '0-2 Yrs',
          '0-2 Yrs']
```

```python
In [23]: df=pd.DataFrame({'Job-Title':job_titles,'Job-Location':loc,'Company-Name':comp,'Expirence-required':exp})
         df
```

Out[23]:

	Job-Title	Job-Location	Company-Name	Expirence-required
0	Senior Data Analyst	Bangalore/Bengaluru	Flipkart	4-6 Yrs
1	Senior Data Analyst - Data Modeling/Database D...	Bangalore/Bengaluru	K & R Enterprises	4-6 Yrs

2	Data analyst	Bangalore/Bengaluru	GSK India	5-9 Yrs
3	Data Analyst	Bangalore/Bengaluru	GSK India	7-10 Yrs
4	Financial Data Analyst	Bangalore/Bengaluru	Moody's	0-2 Yrs
5	Data Analyst	Bangalore/Bengaluru	Aldius Consulting Services Pvt Ltd (Paramantra)	0-2 Yrs
6	OYO Rooms - Data Analyst / Business Analyst	Bangalore/Bengaluru, Delhi / NCR, Mumbai (All ...	OyoRooms	2-6 Yrs
7	Data Analyst - Python/SQL	Bangalore/Bengaluru	Affine	3-5 Yrs
8	Data Analyst - IT	Bangalore/Bengaluru	Yespired	3-8 Yrs
9	Senior Data Analyst - Collibra	Bangalore/Bengaluru	Shell	8-12 Yrs
10	Business Analyst/Data Analyst	Hyderabad/Secunderabad, Bangalore/Bengaluru, D...	Telamon HR Solutions	3-5 Yrs
11	Senior Data Analyst - KPO	Gurgaon/Gurugram, Bangalore/Bengaluru	Huquo Consulting Pvt. Ltd	7-12 Yrs
12	Consultant - Data Analyst	Bangalore/Bengaluru	Flipkart	1-3 Yrs
13	Analyst / Senior Analyst– Risk & Information M...	Gurgaon/Gurugram, Bangalore/Bengaluru	American Express	0-5 Yrs
14	Lead CLR Data Analyst	Bangalore/Bengaluru	Target	7-12 Yrs
15	Data Analyst	Mumbai, Pune, Bangalore/Bengaluru	National Entrepreneurship	3-7 Yrs
16	Data analyst	Bangalore/Bengaluru	GSK India	5-9 Yrs
17	Pipeline/Piping Data Analyst Trainee	Bangalore/Bengaluru	TIMS SOLUTIONS PRIVATE LIMITED	0-4 Yrs
18	Data Analyst	Bangalore/Bengaluru(HSR Layout +7)	Insure Pro 2.0	0-2 Yrs
19	Data Analyst	Bangalore/Bengaluru	BERKMEER INDIA PRIVATE LIMITED	0-2 Yrs

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

In [24]:
```python
driver1=webdriver.Chrome('chromedriver.exe')
```

In [25]:
```python
url1='https://www.naukri.com/'
driver1.get(url1)
```

In [26]:
```python
srh_job1=driver1.find_element_by_class_name('suggestor-input ')
srh_job1
```

Out[26]: <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="f1e407e5-a94a-4593-850a-604e13896344")>

In [27]:
```python
srh_job1.send_keys('Data Scientist')
```

In [28]:
```python
loc_job1=driver1.find_element_by_xpath('/html/body/div/div[2]/div[3]/div/div/div[3]/div/div/div/input')
```

In [29]:
```python
loc_job1.send_keys('Banglore')
```

In [30]:
```python
srh_btn1=driver1.find_element_by_class_name('qsbSubmit')
srh_btn1.click()
```

In [31]:
```python
job_tags1=driver1.find_elements_by_xpath('//a[@class="title fw500 ellipsis"]')
```

In [32]:
```python
job_tags1
```

Out[32]: [<selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="b4754a7e-364f-46d9-b2c3-1738931b5000")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="8da2f82a-b3e9-4621-8e11-0bdda1b39da2")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="df4ace62-2594-4b0b-bdf7-d973065a78a8")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="f51d2083-8d39-4b75-8cee-28beda5a325c")>,

```
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="eb989c28-
28ed-478e-ad09-23f167df6717")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="65dc1ce6-
bee8-42a3-b804-4d12b0b26091")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="ddff605d-
8949-493f-a33b-c60fef172218")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="51ae0a4c-
62b5-453a-9fb3-b1251dc81e51")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="a7e07e3e-
5164-4d5c-9ef3-3134ecb59315")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="8a585447-
3eda-4013-8b9f-8cdeb1474401")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="8c19afc2-
29f5-4ae1-9a76-0474c70a75de")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="12ce2a2e-
e009-49c5-a426-0a8def0cdfcc")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="68f9521a-
093d-4f9b-9c3b-fd423ff293ed")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="9e3a2afe-
abdb-48c7-92b5-db913f0859e1")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="7448cf8c-
67d8-41e1-bfc0-1b6d7c5e1801")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="f6535b99-
8b6b-4c4e-b4de-c335f3956bbf")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="eac4b5b4-
3bf2-4fbd-b188-961591cd8943")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="11180ffb-
0688-4c4b-af9e-d3aad24e5622")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="92c8835d-
18d2-4c35-a6da-4379aa2c86fc")>,
  <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="2ac0c318-
b275-47a1-920f-048ab575d944")>]
```

In [33]:
```python
len(job_tags1)
```

Out[33]: 20

In [35]:
```python
job_titles1=[]
for i in job_tags1:
    job_titles1.append(i.text)

job_titles1
```

Out[35]: ['Global Tax Automation & Operations - Data Scientist Senior Analyst',
 'Lead Data Scientist - Machine Learning/ Data Mining',
 'Opportunity For Data Scientist Internship - Bengaluru',
 'Louis Dreyfus Company Looking For Data Scientist',
 'Data Scientist: Advanced Analytics',
 'Data Scientist: Advanced Analytics',
 'GSC Operational Analytics Data Scientist',
 'Data Scientist: Artificial Intelligence',
 'Data Scientist: Artificial Intelligence',
 'Senior Data Scientist/Data Scientist',
 'Data Scientist - Python/ MATLAB/ Machine Learning Algorithms',
 'Data Scientist - Lead / Architect - Looking For Early Joiners - Wipro',
 'Lead Data Scientist',
 'Lead Data Scientist',
 'Lead Data Scientist',
 'Sr. Data Scientist',
 'Senior Data Scientist / Tech Lead - SQL / Python / Big Data',
 'Senior Data Scientist/Tech Lead - SQL/Python/Big Data',
 'Data Scientist / ML Engineer',
 'Data Scientist - Lead / Architect - Looking For Early Joiners - Wipro']

In [36]:
```python
job_loc=driver1.find_elements_by_xpath('//li[@class="fleft grey-text br2 placeHolderLi location"]')
```

In [37]:
```python
job_loc
```

Out[37]: [<selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="66466182-
c84e-4bf6-aa0c-d32fcd3779c4")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="377923fa-
747d-4ec6-8484-b4e9f381b147")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="30921b06-
```

6155-4e49-985a-1a056f981406")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="af75eae3-5a3f-4080-b2d5-2e33d4ee096d")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="54dedc6a-11b8-4747-98c9-7f6ba615f391")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="43d17d38-2693-4a09-b604-232315249133")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="2c762f7e-7c25-4b26-b760-5ffeb639bd52")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="e00e4be4-524b-4e47-8c88-99fb663cfaf3")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="4155bbf6-6423-474c-bd97-5cc9b7ca8ef4")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="0cef41c6-ae16-42d0-891d-7aacf8faff33")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="526b6339-b3c8-421a-9e09-26a0f06a2a6d")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="bb1d763f-b28b-4bc9-bd38-234e97524560")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="769b9f74-e430-437b-bdad-1dac71931afe")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="ecef3724-9c44-41f3-90fe-7e46f343b8b9")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="09124246-8225-4757-9ae8-76f8380893a0")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="fb1f57f2-a045-4f6b-b15e-a1be25b7ff7e")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="d8873433-bf53-4e65-bceb-9dfc9d68e409")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="ebbae5cf-5e0d-4c95-a0a6-449fe21e9c24")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="773c572c-36f0-44bf-85d3-f4fa62dc710e")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="11925ed4-0f4c-4791-8506-3c9fd1e61b8d")>]

In [38]:
```python
job_loc1=[]
for i in job_loc:
    job_loc1.append(i.text)

job_loc1
```

Out[38]: ['Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Indore, Bangalore/Bengaluru\n(WFH during Covid)',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Gurgaon/Gurugram, Chennai, Bangalore/Bengaluru',
 'Bangalore/Bengaluru',
 'Kochi/Cochin, Kolkata, Pune, Gurgaon/Gurugram, Chennai, Coimbatore, Bangalore/Bengaluru, Mumbai (All Areas), Hyderabad',
 'Hyderabad/Secunderabad, Bangalore/Bengaluru, Delhi / NCR\n(WFH during Covid)',
 'Bangalore/Bengaluru',
 'Bangalore/Bengaluru, Delhi / NCR, Mumbai (All Areas)\n(WFH during Covid)',
 'Bangalore/Bengaluru',
 'Pune, Chennai, Bangalore/Bengaluru',
 'Pune, Chennai, Bangalore/Bengaluru',
 'Noida, Kota, Mumbai, Chandigarh, Lucknow, Agra, Gurgaon/Gurugram, Jaipur, Bangalore/Bengaluru',
 'Hyderabad/Secunderabad, Pune, Chennai, Bangalore/Bengaluru']

In [39]:
```python
comp_name=driver1.find_elements_by_xpath('//a[@class="subTitle ellipsis fleft"]')
```

In [40]:
```python
comp_name
```

Out[40]: [<selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="f0cee2b3-52ef-4341-917e-8e920478f35a")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="b18ea720-802b-4af6-b477-c51d01f98f92")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="4301fe97-a41f-451a-9847-3b22b66301de")>,
 <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="85dd636f-df57-412c-9806-c9ab93f198a5")>,

```
    <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="24a07cda-
    ef0a-4600-82b7-df6222b8f6c4")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="59815bd7-
    cdea-4cdd-8300-67a707f6e857")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="15b24ce8-
    582c-4bb3-b694-2e635bb62da4")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="65754816-
    0890-4c7c-9bc9-ffdbdb822586")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="8cf5460b-
    24d3-45e6-962a-73cfbeb64cb9")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="685c6ffc-
    afd6-4c07-b6cd-fcf179fe0f7b")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="8eec76ab-
    b1f3-4664-8664-0e368796777f")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="2e02dd01-
    445c-44b8-a735-320e880b98a3")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="e9453181-
    23ca-4b4e-8371-3ecde4df0c5c")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="50d50b36-
    7788-4dbd-a579-866aa59b73d4")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="4c6cdcf0-
    53cd-4d5d-9e4b-73476e93f071")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="12ba26b1-
    0c21-4daa-b5a1-9a62ffc8975a")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="4e47cad1-
    064f-4831-9e76-8643d9d961f0")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="f34e41e3-
    1754-48b8-b9c5-5857d0cfb0ed")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="7413f0fb-
    d7c4-4add-ae55-5e70a1ba8fb0")>,
     <selenium.webdriver.remote.webelement.WebElement (session="1271edceeb1b6a4fdfc7a2c3cbfc0009", element="0b0c66b8-
    4910-41cd-8292-7809f8abb3c5")>]
```

In [41]:
```python
comp_name1=[]
for i in comp_name:
    comp_name1.append(i.text)

comp_name1
```

Out[41]:
```
['Dell',
 'Wrackle Technologies Pvt Ltd',
 'Corner Stone Solutions',
 'Louis Dreyfus Commodities',
 'IBM',
 'IBM',
 'Intel',
 'IBM',
 'IBM',
 'Tredence Analytics Solutions Private Limited',
 'Wrackle Technologies Pvt Ltd',
 'Wipro',
 'NAVIKENZ INDIA PRIVATE LIMITED',
 'Vmware',
 'TransOrg Solutions Services (P) Ltd.',
 'Easy Recruit',
 'Exploro Solutions',
 'Exploro Solutions',
 'AVE-Promagne',
 'Wipro']
```

In [43]:
```python
df=pd.DataFrame({'Job-Title':job_titles1,'Job-Location':job_loc1,'Company-Name':comp_name1})
df
```

Out[43]:

	Job-Title	Job-Location	Company-Name
0	Global Tax Automation & Operations - Data Scie...	Bangalore/Bengaluru	Dell
1	Lead Data Scientist - Machine Learning/ Data M...	Bangalore/Bengaluru	Wrackle Technologies Pvt Ltd
2	Opportunity For Data Scientist Internship - Be...	Indore, Bangalore/Bengaluru\n(WFH during Covid)	Corner Stone Solutions
3	Louis Dreyfus Company Looking For Data Scientist	Bangalore/Bengaluru	Louis Dreyfus Commodities
4	Data Scientist: Advanced Analytics	Bangalore/Bengaluru	IBM
5	Data Scientist: Advanced Analytics	Bangalore/Bengaluru	IBM
6	GSC Operational Analytics Data Scientist	Bangalore/Bengaluru	Intel
7	Data Scientist: Artificial Intelligence	Bangalore/Bengaluru	IBM
8	Data Scientist: Artificial Intelligence	Bangalore/Bengaluru	IBM

9	Senior Data Scientist/Data Scientist	Gurgaon/Gurugram, Chennai, Bangalore/Bengaluru	Tredence Analytics Solutions Private Limited
10	Data Scientist - Python/ MATLAB/ Machine Learn...	Bangalore/Bengaluru	Wrackle Technologies Pvt Ltd
11	Data Scientist - Lead / Architect - Looking Fo...	Kochi/Cochin, Kolkata, Pune, Gurgaon/Gurugram,...	Wipro
12	Lead Data Scientist	Hyderabad/Secunderabad, Bangalore/Bengaluru, D...	NAVIKENZ INDIA PRIVATE LIMITED
13	Lead Data Scientist	Bangalore/Bengaluru	Vmware
14	Lead Data Scientist	Bangalore/Bengaluru, Delhi / NCR, Mumbai (All ...	TransOrg Solutions Services (P) Ltd.
15	Sr. Data Scientist	Bangalore/Bengaluru	Easy Recruit
16	Senior Data Scientist / Tech Lead - SQL / Pyth...	Pune, Chennai, Bangalore/Bengaluru	Exploro Solutions
17	Senior Data Scientist/Tech Lead - SQL/Python/B...	Pune, Chennai, Bangalore/Bengaluru	Exploro Solutions
18	Data Scientist / ML Engineer	Noida, Kota, Mumbai, Chandigarh, Lucknow, Agra...	AVE-Promagne
19	Data Scientist - Lead / Architect - Looking Fo...	Hyderabad/Secunderabad, Pune, Chennai, Bangalo...	Wipro

Q3: In this question you have to scrape data using the filters available on the webpage as shown below

In [44]:
```python
import pandas as pd
import numpy as np
from selenium import webdriver
import warnings
warnings.filterwarnings('ignore')
```

In [45]:
```python
driver3=webdriver.Chrome('chromedriver.exe')
```

In [46]:
```python
url3='https://www.naukri.com/'
driver3.get(url3)
```

In [47]:
```python
srh_job3=driver3.find_element_by_class_name('suggestor-input')
```

In [48]:
```python
srh_job3
```

Out[48]:
```
<selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="98e58435-e
a0e-4ba1-86b2-ed37b35b54f1")>
```

In [49]:
```python
srh_job3.send_keys('Data Scientist')
```

In [50]:
```python
srh_btn3=driver3.find_element_by_class_name('qsbSubmit')
srh_btn3.click()
```

In [51]:
```python
loc_filter=driver3.find_element_by_xpath('/html/body/div[1]/div[3]/div[2]/section[1]/div[2]/div[3]/div[2]/div[3]/
```

In [52]:
```python
loc_filter.click()
```

In [53]:
```python
sal_filter=driver3.find_element_by_xpath('/html/body/div[1]/div[3]/div[2]/section[1]/div[2]/div[4]/div[2]/div[2]/
sal_filter.click()
```

In [54]:
```python
job_tags2=driver3.find_elements_by_xpath('//a[@class="title fw500 ellipsis"]')
```

In [55]:
```python
job_tags2
```

Out[55]:
```
[<selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="854397e0-
3260-4d43-9556-166eaff04e50")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="89bd2b06-
9fa9-4351-b022-801cbb495fea")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="85b1950c-
2919-44ca-a91a-ff993f4a0395")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="a0912d14-
684c-4390-828e-3672182c1e21")>,
```

```
<selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="e1f92e4d-
5494-45c2-9655-79eec360dca9")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="ca722f72-
eb68-4e7b-9adb-314da3291714")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="566e19e6-
df5b-48e3-80f4-a5458c868f66")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="b199db58-
b54a-4eac-a57e-af0f5acfdaa7")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="3d61aa47-
fbaa-4d72-9750-f4339e5f1cf7")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="fcbfd703-
583d-4269-9adb-2808a06840b3")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="d2e4a0cb-
a803-4f97-923c-e58cae9d4851")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="cbb04469-
80c6-4150-ab76-a8adf1316259")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="1e5d1f71-
9721-4127-a2ef-ed03fe7536d6")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="7b024d50-
c89c-4e3f-a1a7-eb86ac771e5f")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="00d52f64-
0334-4666-9678-f1178bf04c31")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="5cd50844-
5935-4150-a931-c9b3f7192dc5")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="964e545a-
9880-4e2e-a01d-04274147eec6")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="23cedc73-
cd47-4aa4-a6e8-479fd9641953")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="86b4ae4f-
0b60-4052-874c-fbe8e0b01d46")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="24bd7692-
6f0a-4ca2-b63d-a68823db5cac")>]
```

In [56]:
```python
len(job_tags2)
```

Out[56]: 20

In [57]:
```python
job_head=[]
for i in job_tags2:
    job_head.append(i.text)
    job_head=job_head[0:10]

job_head
```

Out[57]:
```
['Data Scientist',
 'Data Scientist-Onsite and offshore',
 'Data Scientist',
 'Data Scientist',
 'Opening For Data Scientist',
 'Data Scientist | A Fintech Organisation',
 'Data & Applied Scientist',
 'Data and applied Scientist',
 'Urgent Requirement || Data Scientist || Noida',
 'Data Analyst / Data Scientist / Business Analytics / Fresher - MNC']
```

In [58]:
```python
job_loc3=driver3.find_elements_by_xpath('//li[@class="fleft grey-text br2 placeHolderLi location"]')
```

In [59]:
```python
job_loc3
```

Out[59]:
```
[<selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="8f0080cf-
da8f-4dbd-aaa5-4e55255b2424")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="10e11d34-
22bc-43b1-b7c5-ff31cef6c633")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="04c71112-
84fd-4ea4-b8d6-e79bf47f3517")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="347cf6b7-
bf1c-4f69-a406-9e12b5b6f255")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="e71408bf-
00db-43a2-9895-662bf59a2360")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="ab6cd716-
7d6f-4622-a12e-612f9896916c")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="0110ad7c-
2e96-48d8-99a2-30489673a165")>,
```

```
<selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="7ea02df4-
568d-4f09-bdd6-2d6fbaa03866")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="4dbaea60-
5f20-411a-87eb-232c7cf15a82")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="639659a9-
ff71-4edd-86b4-1fd6f3d62b07")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="d448322f-
d688-412e-bdb4-48b4b0b90e86")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="e4339df6-
6815-43c0-aa28-74859a2d49d3")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="77aed9d1-
7bf4-404b-b8a1-9f90afbe32e0")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="7244a5ae-
09b5-4e75-b0f5-006e1ae257bc")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="52f5e9b7-
54d0-4a3e-ad38-a0325b2a5f7a")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="9d56a802-
52e4-4616-86c7-1d72d4f73029")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="51781bae-
7d7c-4a35-bcbd-19ff84299ddc")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="5f76bcba-
5035-49e6-ab94-d347f0d3d90e")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="32a642a7-
a6db-4744-918d-1d053673a075")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="16c6b697-
8ea7-46c2-b452-e853303f10eb")>]
```

In [60]:
```python
len(job_loc3)
```

Out[60]: 20

In [61]:
```python
job_location=[]
for i in job_loc3:
    job_location.append(i.text)
    job_location=job_location[0:10]

job_location
```

Out[61]:
```
['Kolkata, Hyderabad/Secunderabad, Pune, Chennai, Bangalore/Bengaluru, Delhi / NCR',
 'Hyderabad/Secunderabad, Pune, Chennai, Bangalore/Bengaluru, Delhi / NCR, Mumbai (All Areas)',
 'New Delhi',
 'Gurgaon/Gurugram, Chennai\n(WFH during Covid)',
 'Gurgaon/Gurugram',
 'Gurgaon/Gurugram',
 'Noida, Hyderabad/Secunderabad, Bangalore/Bengaluru',
 'Noida, Hyderabad/Secunderabad, Bangalore/Bengaluru',
 'Noida, Delhi / NCR',
 'Noida, New Delhi, Delhi / NCR']
```

In [62]:
```python
comp_name3=driver3.find_elements_by_xpath('//a[@class="subTitle ellipsis fleft"]')
```

In [63]:
```python
comp_name3
```

Out[63]:
```
[<selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="3e2b51e8-
cc8f-4272-9f16-fc5a79034eba")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="a36d897d-
524e-4523-8438-6c8cff86ed10")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="490da024-
604c-442e-9874-010cc5fc68de")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="c695297c-
6ad1-4b46-ae8a-791b62c654bd")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="b54adec5-
982e-4bc0-b01a-f04c0936af4c")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="9bc3e574-
9e00-478b-ad5b-be15e11a4e0d")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="39dbdd63-
4b83-452e-973c-8886b342cd29")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="fdfb78ae-
8799-4615-ab0d-57e8b0789f98")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="a70f9514-
ff68-49be-bac5-330d7d35ed51")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="5a95fe94-
c3db-49d4-a2f9-42141fcc804b")>,
```

    <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="efd00dd4-
    acfc-4178-a7ec-42fcc506fdea")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="8eaefeea-
    eada-4ea8-abed-d02244b65211")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="c49fbdc5-
    fe9c-470e-81c2-1b2106c7ab3d")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="ab50e52d-
    54a6-43b6-b731-c21e4f4aa484")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="baedd8ee-
    77dc-470c-a457-56b0c1383788")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="9798ecdf-
    956c-43a8-a635-44c5ce7a45f2")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="e481d7ad-
    5a12-4802-8598-e381a4a89ae6")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="7313f6bf-
    2459-4f39-b826-768c498572ed")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="0ecdd4bd-
    7ccf-428a-9c0c-e7836bd28c08")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="52b452ed-
    acaf-447b-89b8-58404e00cede")>]

In [64]:
```python
len(comp_name3)
```

Out[64]: 20

In [65]:
```python
comp_location=[]
for i in comp_name3:
    comp_location.append(i.text)
    comp_location=comp_location[0:10]

comp_location
```

Out[65]: ['Alp Consulting Limited',
 'PROKXIMITY',
 'CHANGE LEADERS CONSULTING',
 'DECISION POINT PRIVATE LIMITED',
 'Care Health Insurance',
 'Vision Beyond Resources India Private Limited',
 'Microsoft',
 'Microsoft',
 'HCL',
 'GABA Consultancy services']

In [66]:
```python
expirence=driver3.find_elements_by_xpath('//span[contains(@title,"Yrs")]')
expirence
```

Out[66]: [<selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="75922083-
    49bb-4df0-a4a6-7c4c8de72f3e")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="7ef85b79-
    b8b8-4229-90a3-c5dde26f9993")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="31caf899-
    3eda-4774-8595-5da61d7724f5")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="de039f47-
    6a16-44aa-a47e-72e7fd7ed0ed")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="e3ee7f94-
    7547-496b-bfc6-2909bdd025f2")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="ea2c33f9-
    af38-4801-a98a-7fabf27f4333")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="da72c1fb-
    3c0f-4950-9f30-7b2345d07916")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="c641ea1d-
    71b4-4ccf-bed9-9ce17ca37951")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="89d87213-
    99f4-4542-b027-664e525ae369")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="21ef45e5-
    7e5d-4337-962b-c1550f911c98")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="da13babf-
    584a-4a9d-9338-021772d86d0a")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="b2a15ee6-
    d8c3-412c-8aff-85d10cfa3204")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="da4b7162-
    4b3f-4d51-8ec0-5c3a4a025df6")>,
     <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="bc2215f4-
    8369-4440-a733-42863265d2c8")>,

```
<selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="6b3ca545-
49c2-4dfc-abdd-77b8f9b08312")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="549035b3-
070a-42c0-b52e-7681b8ea9cd8")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="528968dc-
408a-4a90-8543-b666dbff1ad6")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="5d66af75-
44f3-4093-a7cb-eb3c3476f943")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="31bd7ae5-
ea9b-434e-8e33-0b57a501be32")>,
 <selenium.webdriver.remote.webelement.WebElement (session="c7e0d7acd242992817fd2738028b25f4", element="210e08c4-
7198-4043-8177-7e9ac3ac833f")>]
```

In [67]:
```python
len(expirence)
```

Out[67]: 20

In [68]:
```python
exp_req=[]
for i in expirence:
    exp_req.append(i.text)
    exp_req=exp_req[0:10]

exp_req
```

Out[68]:
```
['1-6 Yrs',
 '3-8 Yrs',
 '3-8 Yrs',
 '1-6 Yrs',
 '1-5 Yrs',
 '2-7 Yrs',
 '3-7 Yrs',
 '3-7 Yrs',
 '3-8 Yrs',
 '0-0 Yrs']
```

In [70]:
```python
df=pd.DataFrame({'Job-Title':job_head,'Job-Location':job_location,'Company-Name':comp_location,'Expirence-Require
df
```

Out[70]:

	Job-Title	Job-Location	Company-Name	Expirence-Required
0	Data Scientist	Kolkata, Hyderabad/Secunderabad, Pune, Chennai...	Alp Consulting Limited	1-6 Yrs
1	Data Scientist-Onsite and offshore	Hyderabad/Secunderabad, Pune, Chennai, Bangalo...	PROKXIMITY	3-8 Yrs
2	Data Scientist	New Delhi	CHANGE LEADERS CONSULTING	3-8 Yrs
3	Data Scientist	Gurgaon/Gurugram, Chennai\n(WFH during Covid)	DECISION POINT PRIVATE LIMITED	1-6 Yrs
4	Opening For Data Scientist	Gurgaon/Gurugram	Care Health Insurance	1-5 Yrs
5	Data Scientist | A Fintech Organisation	Gurgaon/Gurugram	Vision Beyond Resources India Private Limited	2-7 Yrs
6	Data & Applied Scientist	Noida, Hyderabad/Secunderabad, Bangalore/Benga...	Microsoft	3-7 Yrs
7	Data and applied Scientist	Noida, Hyderabad/Secunderabad, Bangalore/Benga...	Microsoft	3-7 Yrs
8	Urgent Requirement || Data Scientist || Noida	Noida, Delhi / NCR	HCL	3-8 Yrs
9	Data Analyst / Data Scientist / Business Analy...	Noida, New Delhi, Delhi / NCR	GABA Consultancy services	0-0 Yrs

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

In [71]:
```python
driver4=webdriver.Chrome('chromedriver.exe')
```

```
In [72]:   url4='https://www.flipkart.com/'
           driver4.get(url4)
```

```
In [73]:   srh_glass=driver4.find_element_by_class_name('_3704LK')
```

```
In [74]:   srh_glass
```

```
Out[74]:   <selenium.webdriver.remote.webelement.WebElement (session="0005c7845a61ff187ca990b3d8936218", element="5947722d-5
           d2e-4a62-bb29-cbf1b7cef17e")>
```

```
In [75]:   srh_glass.send_keys('sunglasses')
```

```
In [89]:   srh_btn4=driver4.find_element_by_class_name('L0Z3Pu')
```

```
In [6]:    srh_btn4.click()
```

```
           -----------------------------------------------------------------------
           NameError                                Traceback (most recent call last)
           <ipython-input-6-417ad496f4f5> in <module>
           ----> 1 srh_btn4.click()

           NameError: name 'srh_btn4' is not defined
```

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

```
In [7]:    driver5=webdriver.Chrome('chromedriver.exe')
```

```
In [8]:    url5="s://www.flipkart.com/apple-iphone-11-black-64-gb-includes- earpods-power-adapter/p/itm0f37c2240b217?pid=MOE
           driver5.get(url5)
```

```
In [9]:    # The Link provided above is not opening in 'automated tested chrome' it may be removed by flipkart so cannot scr
```

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

```
In [10]:   driver6=webdriver.Chrome('chromedriver.exe')
```

```
In [11]:   url6="https://www.flipkart.com/"
           driver6.get(url6)
```

```
In [12]:   srh_sneaker=driver6.find_element_by_class_name('_3704LK')
```

```
In [13]:   srh_sneaker
```

```
Out[13]:   <selenium.webdriver.remote.webelement.WebElement (session="6c737990b9881de514ab84e59b8c55b2", element="9a5a7465-3
           164-4121-a70f-34abc70ad745")>
```

```
In [14]:   srh_sneaker.send_keys('sneakers')
```

```
In [17]:   srh_btn6=driver6.find_element_by_class_name("_34RNph")
```

```
In [ ]:    srh_btn6.click()
```

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

```python
import pandas as pd
import numpy as np
from selenium import webdriver
import warnings
warnings.filterwarnings('ignore')
```

```python
driver=webdriver.Chrome('chromedriver.exe')
```

```python
url = "https://www.myntra.com/shoes"

driver.get(url)
```

```python
driver.find_element_by_xpath("/html/body/div[2]/div/div[1]/main/div[3]/div[1]/section/div/div[5]/ul/li[2]/label/
```

```python
driver.find_element_by_xpath("/html/body/div[2]/div/div[1]/main/div[3]/div[1]/section/div/div[6]/ul/li[1]/label/
```

```python
brand_name7 = []
prd_desc7 = []
price7 = []


brand = driver.find_elements_by_class_name('product-brand')

for i in brand:
    brand_name7.append(i.text)

desc = driver.find_elements_by_class_name('product-product')

for i in desc:
    prd_desc7.append(i.text)

cost = driver.find_elements_by_class_name("product-price")


for i in cost:
    price7.append(i.text)
```

```python
len(brand_name7),len(prd_desc7),len(price7)
```

```
(50, 50, 50)
```

```python
driver = webdriver.Chrome('chromedriver.exe')

url = "https://www.myntra.com/shoes?f=Color%3ABlack_36454f&p=2&plaEnabled=false&rf=Price%3A6657.0_13105.0_6657.0%

driver.get(url)
```

```python
brand_name1 = []
prd_desc1 = []
price1 = []


brand = driver.find_elements_by_class_name('product-brand')

for i in brand:
    brand_name1.append(i.text)

desc = driver.find_elements_by_class_name('product-product')

for i in desc:
    prd_desc1.append(i.text)

cost = driver.find_elements_by_class_name("product-price")
```

```
    for i in cost:
        price1.append(i.text)
```

In [20]:
```
df24 = pd.DataFrame({})
df24['brand_name'] = brand_name7+brand_name1
df24['prd_desc'] = prd_desc7+prd_desc1
df24['[price]'] = price7+prd_desc1
```

In [21]:
```
df24
```

Out[21]:

	brand_name	prd_desc	[price]
0	Nike	Men Winflo 7 Running Shoes	Rs. 7995
1	Nike	Men Blazer Court Skateboarding	Rs. 7495
2	Nike	Men Air Max Dawn Sneakers	Rs. 10995
3	Tommy Hilfiger	Men Leather Sneakers	Rs. 7999
4	Puma	Men Jamming 2.0 Running Shoes	Rs. 12999
...	...	...	...
95	J.FONTINI	Men Leather Formal Loafers	Men Leather Formal Loafers
96	J.FONTINI	Men Leather Formal Loafers	Men Leather Formal Loafers
97	Geox	Men Leather Loafers	Men Leather Loafers
98	Geox	Men Leather Driving Shoes	Men Leather Driving Shoes
99	DAVINCHI	Men Formal Leather Slip-Ons	Men Formal Leather Slip-Ons

100 rows × 3 columns

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

In [22]:
```
import selenium
from selenium import webdriver
import pandas as pd
import warnings
warnings.filterwarnings('ignore')
```

In [23]:
```
driver=webdriver.Chrome('chromedriver.exe')
```

In [24]:
```
url='https://www.amazon.in/'
driver.get(url)
```

In [25]:
```
srh_lap=driver.find_element_by_id('twotabsearchtextbox')
srh_lap
```

Out[25]: <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="418ef76b-2
3f7-49d7-b342-2e0efe38384a")>

In [26]:
```
srh_lap.send_keys("Laptop")
```

In [27]:
```
button_srh=driver.find_element_by_id("nav-search-submit-button")
```

In [28]:
```
button_srh.click()
```

In [29]:
```
core_i7=driver.find_element_by_xpath("/html/body/div[1]/div[2]/div[1]/div[2]/div/div[3]/span/div[1]/div/div/div[6
```

In [30]:
```
core_i7.click()
```

In [34]:
```
lap_title=driver.find_elements_by_xpath('//a[@class="a-link-normal s-underline-text s-underline-link-text s-link-
```

In [35]:
```
lap_title
```

Out[35]: [<selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="6d2737a1-
b4f4-4a04-a5e1-b254067f86f3")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="02fc282b-
2e85-4d74-a77f-6fab73f11d77")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="a06c999a-
6905-4617-adef-d795026b69c0")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="cd0ecd72-
e945-4348-a6ec-a0e532f18e32")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="989efd1d-
23f8-4598-943f-f989bb329b4b")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="350a5944-
8d50-4f97-af02-a4a8ff30a981")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="082abea2-
8db7-40bc-908b-27ff898f1c1c")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="77451772-
89d8-4cbc-afbc-f50f7f57c27e")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="0fcee9ea-
c312-4976-aa8e-d6dd692d3f29")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="e3efc157-
65bf-44a9-8e55-17be94c664ef")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="5b953a18-
22f8-4fe4-a2ad-ebeb6be5d178")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="e32366ca-
0cdc-4ac5-9d3f-4305d3b75f10")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="38b8ff99-
7541-4296-bde8-d81833405d29")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="e229b1d3-
d59a-4e55-b044-2a63d2573e55")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="d68d3986-
b37a-45ef-9e7b-db623c3b54a5")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="778d1577-
11b3-4304-9ba0-55fb5cbc5aec")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="2f8a4205-
3704-477f-9af3-570abeffb13d")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="2640f27f-
a929-4492-85f0-359447eb574e")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="fa07324d-
eaf9-45ce-9d4c-c9dc057807a8")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="2f4bdc4b-
fa6c-43c0-a91b-37599c5801c5")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="7b06eb5d-
8008-4679-8a5c-101dcd2ab97e")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="14449ee1-
bfaf-495e-ab4b-5bb7d179299c")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="275a7770-
f64c-44c2-9ad7-bd93a584c623")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="c07beae7-
3c45-474f-be29-011fa7e3a9e9")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="3e84df5c-
4714-4768-882a-da17523e87f1")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="0e6b5b4f-
79ab-4e37-887e-b32583528527")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="eb1fa6d2-
2d52-4232-b634-4618df93b039")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="40445ff6-
b4dc-453d-82f1-ccd6f96b5194")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="77ec7029-
8e81-48cb-8290-4766327de4d6")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="be334571-
2cc4-48cb-be90-d942f456449a")>]

In [36]:
```python
lap_price=driver.find_elements_by_xpath('//span[@class="a-price-whole"]')
```

In [38]:
```python
lap_price
```

Out[38]: [<selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="cc49a00c-
1ab5-4321-8130-3722d148210f")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="edbd90dd-
8fbd-43c4-b722-b4f41356fdfd")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="76b8ca4b-
e4a5-4a84-a6c6-d0bab84af66b")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="b4c1558b-
cde5-4359-b4f9-54c04d90883c")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="a590cdc3-
0e1f-452e-b037-8fbf7c0d96ef")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="f757f241-
017a-434d-97d0-ba7b01b0aabc")>,

     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="899ec235-24c5-4ce4-a254-f1d96d6decdd")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="0cd1adcb-92b9-4622-982b-e30264a3eb23")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="d950d7a1-5c23-43a4-be3c-bc002c838c11")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="799d4dba-fe51-438b-b6b0-78bc499f24d4")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="630cc9c1-6520-48be-8ffe-544c4ef4567f")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="f344cab2-eff5-4dcc-a26b-81ebb631b2c8")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="1a46c3b6-48f0-4b7f-8f2d-edd5a40565e9")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="919099f3-eacf-4c22-9952-f6d2559694a9")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="59d8f575-bca9-41cb-943e-9aade17a1402")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="237b95a7-3f41-458e-9d51-41295123df8e")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="5926e7eb-d6d3-48f4-99a0-d1b188898c6b")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="85771b08-03f9-4c9a-bd65-a7a21462713e")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="c89a1edd-224c-45cc-8401-21578d8dbb49")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="0e831ab9-2a2c-4f3a-ae9b-c3fa1d2bad37")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="5612d5dd-8276-4fa1-a822-9f10250e40bb")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="cbd5b8cf-4a33-4790-9ad7-187c5ddeb2d2")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="c18101ed-616b-4098-9690-b40034ce40dd")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="2a33e42c-642a-4fc4-bfe8-bcffdba28a1f")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="813dc26b-b648-411a-aebc-3c0fa77cbf41")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="af3c5ac1-6021-4158-8b66-0f3173ad8635")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="87b08874-eb80-4894-980e-992d1d5bd4eb")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="86f1db18-7186-4b00-bf4d-8360bc67aa89")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="82472d3a-17eb-45e5-8ceb-069edafda1a7")>,
     <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="0f54e4d9-3978-4386-857f-a4e6bb608459")>]

        e3e2-4483-a5e3-5de324853f1e")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="63c58cc5-
03c7-4369-abda-a5dd995433bc")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="5e7bd86a-
0e1d-4f0b-8fd7-497baf5ddda9")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="ff954305-
5d3f-4b0e-8c34-ab784906970b")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="7d15080a-
96a8-477d-8461-922afcfb721c")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="44863650-
95f8-4ca1-945e-0cdd8a98c492")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="0aa84359-
d781-445c-b74b-8e612ec54041")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="81422e74-
3781-40ba-a2b7-cb958f742a39")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="7273867d-
6c64-4e42-8380-abec4b4f2ac8")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="89074a2e-
d0b1-4d62-be15-321ff1e4312f")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="0c634d36-
36e1-47fd-81f7-3f269f91bca9")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="3844b9de-
9817-4778-b396-0bbe3ab5ba8a")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="78d4416e-
0188-4c8e-828e-21687763179c")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="174fdd4c-
9620-45d7-8810-a2f967a31b36")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="ac4db7c1-
2f22-46c1-aed3-919262b10737")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="5bea59fb-
2f19-44d0-9347-b39b14ab249d")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="b01e9adf-
f5a1-4d44-b8f0-b0f56bc02948")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="96fc4c6d-
ede6-4975-981d-efc48a304a38")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="75ff70f5-
c332-41a1-85f3-67f42358473c")>,
        <selenium.webdriver.remote.webelement.WebElement (session="d5bb75891ae83289e666bb67f4bc909f", element="1fee2288-
2400-49a1-b684-eb2af34e344c")>]

In [42]:
```python
top10=[]
for i in lap_title:
    top10.append(i.text)
    top10=top10[0:10]
top10
```

Out[42]: ['RedmiBook 15 e-Learning Edition Core i3 11th Gen/8 GB/256 GB SSD/Windows 10 Home/15.6" FHD Anti Glare/MS Office
/Charcoal Gray/1.8 Kg Thin and Light Laptop',
 'Lenovo IdeaPad Slim 3 11th Gen Intel i3 15.6" FHD Thin & Light Laptop (8GB/512GB SDD/Windows 11/MS Office 2021/
2Yr Warranty/Arctic Grey/1.65Kg), 82H802FJIN',
 'Lenovo IdeaPad Slim 3 10th Gen Intel Core i3 15.6"(39.62cm) FHD Thin & Light Laptop (8GB/256GB SSD/UHD Graphics
/Windows 11/MS Office 2021/Platinum Grey/1.7Kg), 81WB01EFIN',
 'Dell 14 (2021) Intel i3-1115G4 Laptop, 8GB, 256GB SSD, Windows 10 + MS Office, Integrated Graphics, 14.0 inches
FHD Display, Dune Color (Vostro 3400, D552201WIN9DE), 1.59kg',
 'Lenovo IdeaPad Slim 3 10th Gen Intel Core i3 14" (35.56cm) FHD Thin & Light Laptop (4GB/256GB SSD/Windows 11/MS
Office 2021/2Year Warranty/Abyss Blue/1.6Kg), 81WD0141IN',
 'Lenovo IdeaPad 3 10th Gen Intel Core i3 15.6 FHD Thin & Light Laptop (8GB/1 TB HDD /Windows 11/Office 2021/2 Yr
Warranty/Platinum Grey/1.7Kg), 81WB018UIN',
 'Lenovo IdeaPad 3 11th Gen Intel Core i3 35.56cm (14 inches) FHD Thin & Light Laptop (8 GB/256GB SDD/Windows 11/
MS Office 2021/2Yr Warranty/Platinum Grey/1.5Kg), 81X700CWIN',
 'ASUS VivoBook 14 (2021), 14-inch (35.56 cms) FHD, Intel Core i3-1115G4 11th Gen, Thin and Light Laptop (8GB/256
GB SSD/Integrated Graphics/Office 2021/Windows 11/Silver/1.6 Kg), X415EA-EB342WS',
 'HP 14s 11th Gen Intel Core i3- 8GB RAM/256GB SSD 14 inch(35.6cm) FHD,Micro-Edge,Anti-Glare,IPS Display/UHD Grap
hics/ Win 11/ MS Office/ Alexa Built-in/ 1.46kg/ Natural Silver - 14s-dy2506TU',
 'ASUS VivoBook 14 (2021), Intel Core i3-1115G4 11th Gen, 14-inch (35.56 cms) FHD Thin and Light Laptop (8GB/256G
B SSD/Office 2021/Windows 11/Integrated Graphics/Silver/1.6 Kg), X415EA-EK342WS']

In [43]:
```python
top_price=[]
for i in lap_price:
    top_price.append(i.text)
    top_price=top_price[0:10]
top_price
```

Out[43]: ['38,990',
 '42,490',
 '37,490',
 '41,790',

```
    '36,490',
    '37,490',
    '39,990',
    '37,790',
    '40,990',
    '37,880']
```

In [44]:
```python
top_rat=[]
for i in Ratings1:
    top_rat.append(i.text)
    top_rat=top_rat[0:10]
top_rat
```

Out[44]: ['', '', '', '', '', '', '', '', '', '']

In [45]:
```python
df20 = pd.DataFrame({})
df20['Title'] = top10
df20['Price'] = top_price
df20['Ratings'] = top_rat
```

In [46]:
```python
df20
```

Out[46]:

	Title	Price	Ratings
0	RedmiBook 15 e-Learning Edition Core i3 11th G...	38,990	
1	Lenovo IdeaPad Slim 3 11th Gen Intel i3 15.6" ...	42,490	
2	Lenovo IdeaPad Slim 3 10th Gen Intel Core i3 1...	37,490	
3	Dell 14 (2021) Intel i3-1115G4 Laptop, 8GB, 25...	41,790	
4	Lenovo IdeaPad Slim 3 10th Gen Intel Core i3 1...	36,490	
5	Lenovo IdeaPad 3 10th Gen Intel Core i3 15.6 F...	37,490	
6	Lenovo IdeaPad 3 11th Gen Intel Core i3 35.56c...	39,990	
7	ASUS VivoBook 14 (2021), 14-inch (35.56 cms) F...	37,790	
8	HP 14s 11th Gen Intel Core i3- 8GB RAM/256GB S...	40,990	
9	ASUS VivoBook 14 (2021), Intel Core i3-1115G4 ...	37,880	

Q9: Write a python program to scrape data for first 10 job results for Data Scientist Designation in Noida

In [47]:
```python
import selenium
from selenium import webdriver
import pandas as pd
import warnings
warnings.filterwarnings('ignore')
```

In [48]:
```python
driver=webdriver.Chrome('chromedriver.exe')
```

In [49]:
```python
url='https://www.ambitionbox.com/'
driver.get(url)
```

In [50]:
```python
job_icon=driver.find_element_by_xpath("/html/body/div[1]/nav/nav/a[6]")
```

In [51]:
```python
job_icon.click()
```

In [52]:
```python
job_srh=driver.find_element_by_xpath("/html/body/div[1]/div/div/div[2]/div[1]/div/div/div/div/span/input")
```

In [53]:
```python
job_srh
```

Out[53]: <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="7d6f2f63-7a41-44a6-b0a8-0a757d159ae2")>

```
In [54]:  job_srh.send_keys('Data Scientist')

In [55]:  srh_bt=driver.find_element_by_xpath("/html/body/div/div/div/div[2]/div[1]/div/div/div/button/span")

In [56]:  srh_bt.click()

In [57]:  loc_job=driver.find_element_by_xpath("/html/body/div/div/div/div[2]/div[2]/div[1]/div/div/div/div[2]/div[1]/p")

In [58]:  loc_job.click()

In [59]:  noida=driver.find_element_by_xpath("/html/body/div/div/div/div[2]/div[2]/div[1]/div/div/div/div[2]/div[2]/div/div

In [60]:  noida
```

Out[60]: `<selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="ebfe1197-0ae3-455e-9ea7-bb05a64222eb")>`

```
In [61]:  company_name=driver.find_elements_by_xpath('//p[@class="company body-medium"]')

In [62]:  company_name
```

Out[62]:
```
[<selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="488cd688-15a9-417d-8e91-db6f0d8fb7a6")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="3a33cea5-17da-42dd-b157-a7838761ddad")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="c257ae4b-2a83-4bed-8fa5-6102acfb6561")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="aaec8d51-b46f-4a9c-92ca-c4e790d35a08")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="994e4462-9735-4915-9790-8a721d6bc103")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="936644eb-9c05-4c13-ba1f-7c34ca87b642")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="a8f7179e-a125-4222-9431-7f9d0e049497")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="5768822d-b614-4ca4-9c81-54b4817640e0")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="4a12b8e1-c16d-41c4-aeff-f9e6f5c83c5e")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="794fe726-b5df-41e2-bf4e-cc1714f0eb66")>]
```

```
In [63]:  len(company_name)
```

Out[63]: 10

```
In [64]:  comp_list=[]
          for i in company_name:
              comp_list.append(i.text)

          comp_list
```

Out[64]:
```
['Walmart Labs',
 'IBM India Pvt. Limited',
 'IBM India Pvt. Limited',
 'JP Morgan Chase',
 'IBM India Pvt. Limited',
 'IBM India Pvt. Limited',
 'Intel Technology India Pvt Ltd',
 'IBM India Pvt. Limited',
 'IBM India Pvt. Limited',
 'IBM India Pvt. Limited']
```

```
In [65]:  days=driver.find_elements_by_xpath('//span[@class="body-small-l"]')
```

```
In [66]:  days
```

Out[66]: [<selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="fa8847b2-
6c1d-41c5-8fee-73f158f465b8")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="1969aa9c-
ca59-4b5a-a4cb-4126d8454f07")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="cf132a7d-
7b17-4fdb-bd06-fd3425f6fe40")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="f4af9509-
e06c-459a-ab78-00f4e397c4ca")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="c4d8087d-
0c3b-4e87-a6aa-b977841a6704")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="e6c0cfc9-
03f2-460a-b87f-1481130ea47f")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="bc6fe650-
2bda-4b8b-b9e3-debca3e8871f")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="0c46f562-
456b-46f9-a639-b959edebb25a")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="acdb33be-
0b41-44a4-b252-509904bebe3c")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="0fa5d3b4-
c23e-492d-ab52-20f9dbecc862")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="070f977e-
d3e7-4be2-999b-a9d628ddfb8d")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="ced1d22a-
10f4-4225-abcb-b0ed11e86b00")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="e5cb6adc-
ec5c-4e35-bc66-ae2f6111ac92")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="7c9b4d73-
7a59-46d4-a0e2-8ef1d07e29a7")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="79af14ec-
c3f4-4332-a1b7-3ea2a8cecaf1")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="429b814f-
9bbc-4ef6-abb9-6bbaf81d57cd")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="98c47445-
1801-4a1e-a5a9-696a0697d594")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="155878c1-
242b-434a-8de6-1875456e043f")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="e37ab1b3-
e6c2-494b-9607-9df527ea62db")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="d4796d5e-
a9b3-4dd0-8db4-de15c56d17b7")>]

```
In [67]:  days_list=[]
          for i in days:
              days_list.append(i.text)
              days_list=days_list[0:10]

          days_list
```

Out[67]: ['2d ago',
 'via naukri.com',
 '2d ago',
 'via naukri.com',
 '2d ago',
 'via naukri.com',
 '1d ago',
 'via iimjobs.com',
 '3d ago',
 'via naukri.com']

```
In [68]:  ratings=driver.find_elements_by_xpath('//span[@class="body-small"]')
```

```
In [69]:  ratings
```

Out[69]: [<selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="31c109d9-
315d-4daf-bc24-df237d356c61")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="4e2377ed-
eecf-4c4a-a092-1392ecddc771")>,

```
<selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="4c6c1951-
1e20-40f1-8951-dc632b04da44")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="fdde4400-
153d-4c7e-b0bb-10b250630f02")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="9f86e663-
a8f5-4b63-8b22-b3fb73863c08")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="c239f721-
158a-404d-99db-cc05f3ae0bab")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="df9244f2-
6500-4eef-b8d3-85a6d325edc1")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="82d175e1-
c99c-4d71-be61-911c38656334")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="abcffce1-
112c-4ebf-b1f9-e511fa0223a2")>,
 <selenium.webdriver.remote.webelement.WebElement (session="fd135dd53b1196906b6beb77f6989a63", element="00be017b-
c961-4498-b23e-6f3e2272b989")>]
```

In [70]:
```python
rat_list=[]
for i in ratings:
    rat_list.append(i.text)


rat_list
```

Out[70]: ['4.1', '4.1', '4.1', '4.1', '4.1', '4.1', '4.3', '4.1', '4.1', '4.1']

In [71]:
```python
df48 = pd.DataFrame({})
df48['Comapny Name'] = comp_list
df48['Posted Days'] = days_list
df48['Ratings'] = rat_list
```

In [72]:
```python
df48
```

Out[72]:

	Comapny Name	Posted Days	Ratings
0	Walmart Labs	2d ago	4.1
1	IBM India Pvt. Limited	via naukri.com	4.1
2	IBM India Pvt. Limited	2d ago	4.1
3	JP Morgan Chase	via naukri.com	4.1
4	IBM India Pvt. Limited	2d ago	4.1
5	IBM India Pvt. Limited	via naukri.com	4.1
6	Intel Technology India Pvt Ltd	1d ago	4.3
7	IBM India Pvt. Limited	via iimjobs.com	4.1
8	IBM India Pvt. Limited	3d ago	4.1
9	IBM India Pvt. Limited	via naukri.com	4.1

Q10: Write a python program to scrape the salary data for Data Scientist designation.

In [96]:
```python
import selenium
from selenium import webdriver
import pandas as pd
import warnings
warnings.filterwarnings('ignore')
```

In [97]:
```python
driver=webdriver.Chrome('chromedriver.exe')
```

In [98]:
```python
url='https://www.ambitionbox.com/'
driver.get(url)
```

In [99]:
```python
job_icon=driver.find_element_by_xpath("/html/body/div[1]/nav/nav/a[6]")
```

```
In [100...   job_icon.click()
```

```
In [101...   job_srh=driver.find_element_by_xpath("/html/body/div[1]/div/div/div[2]/div[1]/div/div/div/span/input")
```

```
In [102...   job_srh
```

```
Out[102...  <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="f544108c-8
            0f8-48cf-abc3-8e7e1afaf68a")>
```

```
In [103...   job_srh.send_keys('Data Scientist')
```

```
In [104...   srh_bt=driver.find_element_by_xpath("/html/body/div/div/div/div[2]/div[1]/div/div/div/button/span")
```

```
In [105...   srh_bt.click()
```

```
In [106...   loc_job=driver.find_element_by_xpath("/html/body/div/div/div/div[2]/div[2]/div[1]/div/div/div/div[2]/div[1]/p")
```

```
In [107...   loc_job.click()
```

```
In [108...   noida=driver.find_element_by_xpath("/html/body/div/div/div/div[2]/div[2]/div[1]/div/div/div/div[2]/div[2]/div/div
```

```
In [109...   noida
```

```
Out[109...  <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="f7963893-6
            994-4f90-a03b-54b5acb6ba47")>
```

```
In [110...   company_name=driver.find_elements_by_xpath('//p[@class="company body-medium"]')
```

```
In [111...   company_name
```

```
Out[111...  [<selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="0f9d9548-
            bcbe-48d8-bae5-7611832fc294")>,
             <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="6e8762d8-
            cd00-449f-8a6d-4dd9b27aed2a")>,
             <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="0589bcf8-
            01f6-4a96-8c76-92710ab50ca9")>,
             <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="70f7ccde-
            5be8-4127-bd71-b51686f2989c")>,
             <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="617d445f-
            ce5d-4c36-b44d-13d158bc5977")>,
             <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="6b9a5153-
            fc2b-4b5d-a2c7-f9bd983a93a5")>,
             <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="5796b93f-
            1c21-4cc1-bd3e-34252ff8fda5")>,
             <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="9d39a04b-
            1b18-4b50-a750-1524f1da41bb")>,
             <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="c097cb5f-
            243d-4d19-897a-01204a995f00")>,
             <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="dca255ae-
            d2ba-4052-8fda-6b248a0bbd01")>]
```

```
In [112...   len(company_name)
```

```
Out[112...  10
```

```
In [123...   comp_list=[]
            for i in company_name:
                comp_list.append(i.text)

            comp_list
```

['Walmart Labs',
 'IBM India Pvt. Limited',
 'IBM India Pvt. Limited',
 'JP Morgan Chase',
 'IBM India Pvt. Limited',
 'IBM India Pvt. Limited',
 'Intel Technology India Pvt Ltd',
 'IBM India Pvt. Limited',
 'IBM India Pvt. Limited',
 'IBM India Pvt. Limited']

```python
days=driver.find_elements_by_xpath('//span[@class="body-small-l"]')
```

```python
days
```

[<selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="741c1b02-db2e-4306-aef4-76aa32e7fd15")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="911bb28c-9acd-4824-9f6b-69280d31ff38")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="6d3e97ce-1a13-4df9-a5ff-67662aa88912")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="f8c01f18-a869-4ca5-a449-54349ce05b62")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="ea38338b-52dd-431d-af46-f3b4abfdd9b1")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="535641d6-231d-4d7d-98de-01cf077b724f")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="d26df333-0e7c-4b9c-932c-a280af837c75")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="0bed909f-4efb-484e-be54-a15538951b65")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="ede2c1b5-56ee-4d72-babe-840912e90ab4")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="3b514991-37a4-4342-84e0-780a09cb5fc4")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="ead2e625-c8c7-44a3-8fd0-ad7f30be5365")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="d48b3829-e2d6-4b28-bdb8-4d7814212898")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="baac0dc6-8a16-4f5d-849c-ecc5240cc229")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="391ea375-2072-4b16-a40b-331ca7ca9bfd")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="352bfb7c-b313-4cd3-aa09-649aac4795fc")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="78ff3f9c-b921-4da5-b628-0df657b123dd")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="ccf5ae1c-0d5f-4789-9090-8f0024b7e778")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="4fca4198-105f-4855-9f80-7115a6dc967c")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="76c46e62-b9dc-4a22-8fde-1c78a81abcdb")>,
 <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="96a516d8-5e44-497d-92f6-0483a2ec0891")>]

```python
days_list=[]
for i in days:
    days_list.append(i.text)
    days_list=days_list[0:10]

days_list
```

['2d ago',
 'via naukri.com',
 '2d ago',
 'via naukri.com',
 '2d ago',
 'via naukri.com',
 '1d ago',
 'via iimjobs.com',
 '3d ago',
 'via naukri.com']

```
In [127... ratings=driver.find_elements_by_xpath('//span[@class="body-small"]')
```

```
In [128... ratings
```

```
Out[128... [<selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="2be1dd45-
          67ca-4ad0-84aa-78249f2cc7f3")>,
           <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="b70971d0-
          5cb1-439d-a7cc-3c45a13eb271")>,
           <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="5d3a6aa3-
          3f46-4f67-8297-cd4e6e0b1e5e")>,
           <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="9977c7c4-
          db2e-4eae-899b-7a23f4ce0b81")>,
           <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="4f95094a-
          4cdc-4dc0-ac8b-4e559678d9f9")>,
           <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="d3cd1075-
          79f1-41f2-a78b-e4fef5b2df9e")>,
           <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="72c9ccc9-
          2e9e-4608-bbfb-e31d513bab26")>,
           <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="810c8d06-
          b2fe-44f7-879a-272aaaf3d296")>,
           <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="1a1a38fe-
          06ef-433c-ae33-5945d9d335fa")>,
           <selenium.webdriver.remote.webelement.WebElement (session="d35536ca5fbca82a5fc4a2ffd88a0d35", element="8053b9ad-
          f63a-4f1d-9c69-1d8258ed0204")>]
```

```
In [129... rat_list=[]
         for i in ratings:
             rat_list.append(i.text)


         rat_list
```

```
Out[129... ['4.1', '4.1', '4.1', '4.1', '4.1', '4.1', '4.3', '4.1', '4.1', '4.1']
```

```
In [130... df48 = pd.DataFrame({})
         df48['Comapny Name'] = comp_list
         df48['Posted Days'] = days_list
         df48['Ratings'] = rat_list
```

```
In [131... df48
```

Out[131...

	Comapny Name	Posted Days	Ratings
0	Walmart Labs	2d ago	4.1
1	IBM India Pvt. Limited	via naukri.com	4.1
2	IBM India Pvt. Limited	2d ago	4.1
3	JP Morgan Chase	via naukri.com	4.1
4	IBM India Pvt. Limited	2d ago	4.1
5	IBM India Pvt. Limited	via naukri.com	4.1
6	Intel Technology India Pvt Ltd	1d ago	4.3
7	IBM India Pvt. Limited	via iimjobs.com	4.1
8	IBM India Pvt. Limited	3d ago	4.1
9	IBM India Pvt. Limited	via naukri.com	4.1

```
In [ ]:
```