

```
import pandas as pd
```

```
!pip install selenium
```

Requirement already satisfied: selenium in c:\users\lenovo\anaconda3\lib\site-packages (4.1.3)

Requirement already satisfied: urllib3[secure,socks]~=1.26 in c:\users\lenovo\anaconda3\lib\site-packages (from selenium) (1.26.9)

Requirement already satisfied: trio~=0.17 in c:\users\lenovo\anaconda3\lib\site-packages (from selenium) (0.20.0)

Requirement already satisfied: trio-websocket~=0.9 in c:\users\lenovo\anaconda3\lib\site-packages (from selenium) (0.9.2)

Requirement already satisfied: idna>=2.0.0; extra == "secure" in c:\users\lenovo\anaconda3\lib\site-packages (from urllib3[secure,socks]~=1.26->selenium) (2.10)

Requirement already satisfied: cryptography>=1.3.4; extra == "secure" in c:\users\lenovo\anaconda3\lib\site-packages (from urllib3[secure,socks]~=1.26->selenium) (3.1.1)

Requirement already satisfied: certifi; extra == "secure" in c:\users\lenovo\anaconda3\lib\site-packages (from urllib3[secure,socks]~=1.26->selenium) (2020.6.20)

Requirement already satisfied: pyOpenSSL>=0.14; extra == "secure" in c:\users\lenovo\anaconda3\lib\site-packages (from urllib3[secure,socks]~=1.26->selenium) (19.1.0)

Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6; extra == "socks" in c:\users\lenovo\anaconda3\lib\site-packages (from urllib3[secure,socks]~=1.26->selenium) (1.7.1)

Requirement already satisfied: sniffio in c:\users\lenovo\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.2.0)

Requirement already satisfied: outcome in c:\users\lenovo\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.1.0)

Requirement already satisfied: async-generator>=1.9 in c:\users\lenovo\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.10)

Requirement already satisfied: cffi>=1.14; os_name == "nt" and implementation_name != "pypy" in c:\users\lenovo\anaconda3\lib\site-packages (from trio~=0.17->selenium) (1.14.3)

Requirement already satisfied: sortedcontainers in c:\users\lenovo\anaconda3\lib\site-packages (from trio~=0.17->selenium) (2.2.2)

Requirement already satisfied: attrs>=19.2.0 in c:\users\lenovo\anaconda3\lib\site-packages (from trio~=0.17->selenium) (20.3.0)

Requirement already satisfied: wsproto>=0.14 in c:\users\lenovo\anaconda3\lib\site-packages (from trio-websocket~=0.9->selenium) (1.1.0)

Requirement already satisfied: six>=1.4.1 in c:\users\lenovo\anaconda3\lib\site-packages (from cryptography>=1.3.4; extra == "secure"->urllib3[secure,socks]~=1.26->selenium) (1.15.0)

Requirement already satisfied: pycparser in c:\users\lenovo\anaconda3\lib\site-packages (from cffi>=1.14; os_name == "nt" and implementation_name != "pypy"->trio~=0.17->selenium) (2.20)

Requirement already satisfied: h11<1,>=0.9.0 in c:\users\lenovo\

```
anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9-  
>selenium) (0.13.0)
```

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

```
driver=webdriver.Chrome(r"C:/Users/Lenovo/Downloads/  
chromedriver_win32/chromedriver.exe")
```

```
url = "https://www.naukri.com/"  
driver.get(url)
```

```
search_job=driver.find_element_by_class_name('suggestor-input ')  
search_job
```

```
<selenium.webdriver.remote.webelement.WebElement  
(session="ebfb619959580f396a8e485e6614f085", element="ac19bb9e-6db8-  
4dc6-bd2e-9abf64466702")>
```

```
search_job.send_keys("Data Analyst")
```

```
#scraping the job-location
```

```
search_locn=driver.find_element_by_xpath("/html/body/div/div[2]/div[3]  
/div/div/div[3]/div/div/div/input")  
search_locn
```

```
<selenium.webdriver.remote.webelement.WebElement  
(session="ebfb619959580f396a8e485e6614f085", element="18cd855a-0859-  
4210-9e0f-98d876d2026f")>
```

```
search_locn.send_keys("Bangalore")
```

```
search_btn=driver.find_element_by_xpath("/html/body/div/div[2]/  
div[3]/div/div/div[6]")  
search_btn.click()
```

```
## Extracting job title
```

```
title_tags=driver.find_elements_by_xpath("//a[@class='title fw500  
ellipsis']")  
len(title_tags)
```

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```

```
title_tags
```

```
[<selenium.webdriver.remote.webelement.WebElement  
(session="ebfb619959580f396a8e485e6614f085", element="77585077-4c46-  
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```

```
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```

```
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```
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```

```
job_titles=[]
```

```
for i in title_tags:
    job_titles.append(i.text)
len(job_titles)
job_titles
```

```
['Financial Data Analyst - Mandarin Language',
'Data Analyst',
'Junior Data Analyst/ Scientist- Fresher Position',
'Senior Data Analyst III',
'Hiring -Data Analyst, Business Analyst, MIS Analyst -3rd Party Payroll',
'Senior Data Analyst',
'Data Analyst - I/II',
'Senior Data Analyst - SQL | 3M-TCOE',
'Data Analyst',
'Azure Data Analyst',
'Data Analyst',
'Data Analyst - Quality',
'Data Analyst',
'Required Senior Data Analyst - Brickwork Ratings',
'Senior Data Analyst',
'Data Analyst 1',
'Sr.Data Analyst/ Scientist',
'Senior Data Analyst',
'Data Analyst/Senior Data Analyst',
'Senior Data Analyst - Flipkart Data science group']
```

```
company_tags=driver.find_elements_by_xpath("//a[@class='subTitle ellipsis fleft']")
len(company_tags)
```

```
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```

```
company_tags
```

```
[<selenium.webdriver.remote.webelement.WebElement
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```

```
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```

```
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```

```
company_name=[]
```

```
for i in company_tags:
    company_name.append(i.text)
len(company_name)
company_name
```

```
["Moody's",
 'Vedantu Innovations',
 'Sejal Consulting Hub',
 'Flipkart',
 'Flipkart',
 'Thomson Reuters',
 'Philips',
 'TALENT500 TECH (INDIA) PRIVATE LIMITED',
 'NTT DATA',
 'NTT DATA',
 'mfine',
 'Enphase Energy',
 'Technicolor Animation & Games',
 'Brickwork Ratings',
 'Nike India',
 'Optum',
 'Anicalls',
 'Flipkart',
 'BYJUS',
 'Flipkart']
```

###Extracting Experience

```
exp_tags=driver.find_elements_by_xpath("//li[@class='fleft grey-text  
br2 placeHolderLi experience']")
len(exp_tags)
```

```
20
```

```
exp_tags
```

```
[<selenium.webdriver.remote.webelement.WebElement
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```

```
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```

```

experience=[]
for i in exp_tags:
    experience.append(i.text)
len(experience)
experience

```

```

['0-2 Yrs',
'0-3 Yrs',
'0-3 Yrs',
'3-4 Yrs',
'1-6 Yrs',
'3-8 Yrs',
'3-6 Yrs',
'4-9 Yrs',
'5-8 Yrs',
'2-5 Yrs',
'1-5 Yrs',
'4-9 Yrs',
'2-6 Yrs',
'2-3 Yrs',
'3-7 Yrs',
'4-9 Yrs',
'5-9 Yrs',
'3-7 Yrs',
'1-3 Yrs',
'3-6 Yrs']

```

```
len(experience)
```

```
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```

```
##Extracting location
```

```

locn_tags=driver.find_elements_by_xpath("//li[@class='fleft grey-text
br2 placeholderLi location']")
len(locn_tags)

```

```
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```

```
locn_tags
```

```

[<selenium.webdriver.remote.webelement.WebElement
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```



```
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```

```

location=[]
for i in locn_tags:
    location.append(i.text)
len(location)
location

['Bangalore/Bengaluru',
'Bangalore/Bengaluru',
'Remote',
'Bangalore/Bengaluru',
'Bangalore/Bengaluru',
'Bangalore/Bengaluru',
'Bangalore/Bengaluru',
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'Bangalore/Bengaluru',
'Bangalore/Bengaluru',
'Bangalore/Bengaluru',
'Bangalore/Bengaluru',
'Bangalore/Bengaluru']

####Data Frame
jobs=pd.DataFrame()
jobs['Job Title']=job_titles
jobs['Company']=company_name
jobs['Experience']=experience
jobs['Location']=location

```

```
len(jobs)
```

```
20
```

```
jobs
```

```

                                Job Title \
0      Financial Data Analyst - Mandarin Language
1                                Data Analyst
2      Junior Data Analyst/ Scientist- Fresher Position
3                                Senior Data Analyst III
4      Hiring -Data Analyst, Business Analyst, MIS An...
5                                Senior Data Analyst
6                                Data Analyst - I/II
7      Senior Data Analyst - SQL | 3M-TCOE
8                                Data Analyst

```

9	Azure Data Analyst
10	Data Analyst
11	Data Analyst - Quality
12	Data Analyst
13	Required Senior Data Analyst - Brickwork Ratings
14	Senior Data Analyst
15	Data Analyst 1
16	Sr.Data Analyst/ Scientist
17	Senior Data Analyst
18	Data Analyst/Senior Data Analyst
19	Senior Data Analyst - Flipkart Data science group

Company Experience	
Location	
0	Moody's 0-2 Yrs
Bangalore/Bengaluru	
1	Vedantu Innovations 0-3 Yrs
Bangalore/Bengaluru	
2	Sejal Consulting Hub 0-3 Yrs
Remote	
3	Flipkart 3-4 Yrs
Bangalore/Bengaluru	
4	Flipkart 1-6 Yrs
Bangalore/Bengaluru	
5	Thomson Reuters 3-8 Yrs
Bangalore/Bengaluru	
6	Philips 3-6 Yrs
Bangalore/Bengaluru	
7	TALENT500 TECH (INDIA) PRIVATE LIMITED 4-9 Yrs
Bangalore/Bengaluru	
8	NTT DATA 5-8 Yrs
Bangalore/Bengaluru	
9	NTT DATA 2-5 Yrs
Bangalore/Bengaluru	
10	mfine 1-5 Yrs
Bangalore/Bengaluru	
11	Enphase Energy 4-9 Yrs
Bangalore/Bengaluru	
12	Technicolor Animation & Games 2-6 Yrs
Bangalore/Bengaluru	
13	Brickwork Ratings 2-3 Yrs
Bangalore/Bengaluru	
14	Nike India 3-7 Yrs
Bangalore/Bengaluru	
15	Optum 4-9 Yrs
Bangalore/Bengaluru	
16	Anicalls 5-9 Yrs
Bangalore/Bengaluru	
17	Flipkart 3-7 Yrs
Bangalore/Bengaluru	

18		BYJUS	1-3 Yrs
Bangalore/Bengaluru			
19		Flipkart	3-6 Yrs
Bangalore/Bengaluru			

jobs[0:10]

	Job Title \
0	Financial Data Analyst - Mandarin Language
1	Data Analyst
2	Junior Data Analyst/ Scientist- Fresher Position
3	Senior Data Analyst III
4	Hiring -Data Analyst, Business Analyst, MIS An...
5	Senior Data Analyst
6	Data Analyst - I/II
7	Senior Data Analyst - SQL 3M-TCOE
8	Data Analyst
9	Azure Data Analyst

Location	Company	Experience
0	Moody's	0-2 Yrs
Bangalore/Bengaluru		
1	Vedantu Innovations	0-3 Yrs
Bangalore/Bengaluru		
2	Sejal Consulting Hub	0-3 Yrs
Remote		
3	Flipkart	3-4 Yrs
Bangalore/Bengaluru		
4	Flipkart	1-6 Yrs
Bangalore/Bengaluru		
5	Thomson Reuters	3-8 Yrs
Bangalore/Bengaluru		
6	Philips	3-6 Yrs
Bangalore/Bengaluru		
7	TALENT500 TECH (INDIA) PRIVATE LIMITED	4-9 Yrs
Bangalore/Bengaluru		
8	NTT DATA	5-8 Yrs
Bangalore/Bengaluru		
9	NTT DATA	2-5 Yrs
Bangalore/Bengaluru		

##4

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

```
driver=webdriver.Chrome(r"C:/Users/Lenovo/Downloads/
chromedriver_win32/chromedriver.exe")
```

```

url = "https://www.flipkart.com/"
driver.get(url)

search_prod=driver.find_element_by_class_name("_3704LK")
search_prod

<selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="cf433a2b-1dd8-
4332-8679-7d065f70e506")>

search_prod.send_keys("sunglasses")

search_btn=driver.find_element_by_xpath("/html/body/div[1]/div/
div[1]/div[1]/div[2]/div[2]/form/div/button")
search_btn.click()

##Extracting Brand
brand_tags=driver.find_elements_by_xpath("//div[@class='_2WkVRV']")
len(brand_tags)

40

brand_tags

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```

```
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```

```

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```

```

brand_name=[]
for i in brand_tags:
    brand_name.append(i.text)
len(brand_name)
brand_name

['SRPM',
 'Elligator',

```

```

'New Specs',
'Singco India',
'Fastrack',
'SUNBEE',
'Lee Topper',
'ROZZETTA CRAFT',
'Fastrack',
'PIRASO',
'SHAAH COLLECTIONS',
'ROZZETTA CRAFT',
'SRPM',
'GANSTA',
'New Specs',
'SKYZA INDIA',
'SRPM',
'kingsunglasses',
'kingsunglasses',
'DAHAAZIL',
'PHENOMENAL',
'PIRASO',
'Lee Topper',
'VOYAGE',
'PIRASO',
'PIRASO',
'Elligator',
'LIZA ANGEL',
'hipe',
'ROZZETTA CRAFT',
'DEIXELS',
'Singco',
'Elligator',
'Silver Kartz',
'PIRASO',
'I Flash',
'Fastrack',
'kingsunglasses',
'Fastrack',
'DAHAAZIL']

```

##Extracting Product Description

```

prod_tags=driver.find_elements_by_xpath("//a[@class='IRpwTa']")
len(prod_tags)

```

40

prod_tags

```

[<selenium.webdriver.remote.webelement.WebElement
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```



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408d-bca0-0f9caa254ca7")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="e9203e9b-9c14-
453e-a16a-19db2cfef014")>]

```

```

prod_descp=[]
for i in prod_tags:
    prod_descp.append(i.text)
len(prod_descp)
prod_descp

```

```

['UV Protection Wayfarer Sunglasses (50)',
'UV Protection Round Sunglasses (54)',
'UV Protection Rectangular Sunglasses (Free Size)',
'Gradient, Toughened Glass Lens, UV Protection Retro Squ...',
'UV Protection Wayfarer Sunglasses (Free Size)',
'UV Protection, Polarized Wayfarer Sunglasses (Free Size...',
'Riding Glasses Wrap-around Sunglasses (Free Size)',
'UV Protection, Gradient Retro Square Sunglasses (62)',
'UV Protection Rectangular Sunglasses (Free Size)',
'UV Protection Aviator Sunglasses (54)',
'UV Protection, Polarized, Mirrored Rectangular Sunglass...',
'UV Protection, Gradient Retro Square Sunglasses (62)',
'UV Protection Wayfarer Sunglasses (54)',
'UV Protection, Riding Glasses Wayfarer Sunglasses (53)',
'Mirrored, UV Protection, Riding Glasses, Others Round S...',
'UV Protection, Mirrored Spectacle Sunglasses (Free Siz...',
'Others Wayfarer, Retro Square Sunglasses (50)',
'UV Protection, Riding Glasses, Mirrored Wayfarer Sungla...',
'UV Protection Round Sunglasses (Free Size)',
'UV Protection, Night Vision, Riding Glasses Wayfarer, W...',
'UV Protection Retro Square Sunglasses (53)',
'UV Protection Wayfarer Sunglasses (32)',
'UV Protection Rectangular Sunglasses (Free Size)',
'Gradient, UV Protection Wayfarer Sunglasses (52)',
'UV Protection Aviator Sunglasses (54)',
'UV Protection Aviator Sunglasses (54)',
'UV Protection Round Sunglasses (53)',
'Riding Glasses, Night Vision Spectacle Sunglasses (Fre...']

```

```
'UV Protection Aviator Sunglasses (Free Size)',
'Polarized, Riding Glasses Sports, Wrap-around Sunglasse...',
'UV Protection Aviator, Wayfarer Sunglasses (Free Size)',
'UV Protection, Others Aviator Sunglasses (32)',
'Others Cat-eye, Retro Square, Wayfarer Sunglasses (54)',
'UV Protection Wayfarer Sunglasses (Free Size)',
'UV Protection Aviator Sunglasses (58)',
'Gradient, Night Vision, UV Protection, Others Wayfarer,...',
'UV Protection Wayfarer Sunglasses (55)',
'Mirrored, UV Protection Wayfarer Sunglasses (Free Size)',
'UV Protection Wayfarer Sunglasses (Free Size)',
'UV Protection, Night Vision, Riding Glasses Round Sungl...']
```

##Extracting price

```
price_tags=driver.find_elements_by_xpath("//div[@class='_30jeq3']")
len(price_tags)
```

```
40
```

```
price_tags
```

```
[<selenium.webdriver.remote.webelement.WebElement
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```

```
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```

```

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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="884385c5-63c3-
438a-9d3b-e63037dbd3f0">]>]

```

```

price=[]
for i in price_tags:
    price.append(i.text)
len(price)
price

```

```

['₹198',
'₹258',
'₹232',
'₹664',

```

```
'₹719',  
'₹253',  
'₹275',  
'₹449',  
'₹639',  
'₹249',  
'₹165',  
'₹449',  
'₹170',  
'₹198',  
'₹263',  
'₹398',  
'₹178',  
'₹184',  
'₹289',  
'₹229',  
'₹289',  
'₹225',  
'₹199',  
'₹699',  
'₹249',  
'₹249',  
'₹189',  
'₹199',  
'₹179',  
'₹474',  
'₹229',  
'₹292',  
'₹164',  
'₹320',  
'₹349',  
'₹229',  
'₹683',  
'₹239',  
'₹719',  
'₹199']
```

##extracting discounts

```
discounts_tags=driver.find_elements_by_xpath("//div[@class='_3Ay6Sb']"  
)  
len(discounts_tags)
```

40

discounts_tags

```
[<selenium.webdriver.remote.webelement.WebElement  
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```

```
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```



```
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```

```

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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="51e2c2e0-c574-
4f67-b6b3-d8909a95c584">]

```

```

Disc=[]
for i in discounts_tags:
    Disc.append(i.text)
len(Disc)
Disc

```

```

['84% off',
'89% off',
'91% off',
'77% off',
'20% off',
'80% off',
'88% off',
'77% off',
'20% off',
'84% off',
'90% off',
'82% off',
'82% off',
'88% off',
'81% off',
'60% off',
'82% off',
'84% off',
'81% off',
'77% off',
'71% off',
'85% off',
'80% off',
'61% off',
'84% off',
'84% off',
'81% off',
'80% off',

```

```
'87% off',
'76% off',
'80% off',
'85% off',
'86% off',
'78% off',
'86% off',
'84% off',
'14% off',
'88% off',
'20% off',
'80% off']
```

```
len(Disc)
```

```
40
```

```
sunglasses_1=pd.DataFrame()
sunglasses_1['Brand']=brand_name
sunglasses_1['Product_description']=prod_descp
sunglasses_1['Price']=price
sunglasses_1['Discounts']=Disc
sunglasses_1
```

```

          Brand
Product_description \
0          SRPM          UV Protection Wayfarer Sunglasses
(50)
1      Elligator          UV Protection Round Sunglasses
(54)
2      New Specs      UV Protection Rectangular Sunglasses (Free
Size)
3      Singco India  Gradient, Toughened Glass Lens, UV
Protection ...
4      Fastrack      UV Protection Wayfarer Sunglasses (Free
Size)
5          SUNBEE      UV Protection, Polarized Wayfarer Sunglasses
(...)
6      Lee Topper      Riding Glasses Wrap-around Sunglasses (Free
Size)
7      ROZZETTA CRAFT  UV Protection, Gradient Retro Square
Sunglasse...
8      Fastrack      UV Protection Rectangular Sunglasses (Free
Size)
9          PIRASO          UV Protection Aviator Sunglasses
(54)
10  SHAAH COLLECTIONS  UV Protection, Polarized, Mirrored
Rectangular...
11  ROZZETTA CRAFT      UV Protection, Gradient Retro Square
Sunglasse...
12          SRPM          UV Protection Wayfarer Sunglasses
```

(54)		
13	GANSTA	UV Protection, Riding Glasses Wayfarer
Sunglas...		
14	New Specs	Mirrored, UV Protection, Riding Glasses,
Other...		
15	SKYZA INDIA	UV Protection, Mirrored Spectacle Sunglasses
(...		
16	SRPM	Others Wayfarer, Retro Square Sunglasses
(50)		
17	kingsunglasses	UV Protection, Riding Glasses, Mirrored
Wayfar...		
18	kingsunglasses	UV Protection Round Sunglasses (Free
Size)		
19	DAHAAZIL	UV Protection, Night Vision, Riding Glasses
Wa...		
20	PHENOMENAL	UV Protection Retro Square Sunglasses
(53)		
21	PIRASO	UV Protection Wayfarer Sunglasses
(32)		
22	Lee Topper	UV Protection Rectangular Sunglasses (Free
Size)		
23	VOYAGE	Gradient, UV Protection Wayfarer Sunglasses
(52)		
24	PIRASO	UV Protection Aviator Sunglasses
(54)		
25	PIRASO	UV Protection Aviator Sunglasses
(54)		
26	Elligator	UV Protection Round Sunglasses
(53)		
27	LIZA ANGEL	Riding Glasses, Night Vision Spectacle
Sunglas...		
28	hipe	UV Protection Aviator Sunglasses (Free
Size)		
29	ROZZETTA CRAFT	Polarized, Riding Glasses Sports, Wrap-
around ...		
30	DEIXELS	UV Protection Aviator, Wayfarer Sunglasses
(Fr...		
31	Singco	UV Protection, Others Aviator Sunglasses
(32)		
32	Elligator	Others Cat-eye, Retro Square, Wayfarer
Sunglas...		
33	Silver Kartz	UV Protection Wayfarer Sunglasses (Free
Size)		
34	PIRASO	UV Protection Aviator Sunglasses
(58)		
35	I Flash	Gradient, Night Vision, UV Protection,
Others ...		
36	Fastrack	UV Protection Wayfarer Sunglasses
(55)		
37	kingsunglasses	Mirrored, UV Protection Wayfarer Sunglasses

(F...
38 Fastrack UV Protection Wayfarer Sunglasses (Free
Size)
39 DAHAAZIL UV Protection, Night Vision, Riding Glasses
Ro...

	Price	Discounts
0	₹198	84% off
1	₹258	89% off
2	₹232	91% off
3	₹664	77% off
4	₹719	20% off
5	₹253	80% off
6	₹275	88% off
7	₹449	77% off
8	₹639	20% off
9	₹249	84% off
10	₹165	90% off
11	₹449	82% off
12	₹170	82% off
13	₹198	88% off
14	₹263	81% off
15	₹398	60% off
16	₹178	82% off
17	₹184	84% off
18	₹289	81% off
19	₹229	77% off
20	₹289	71% off
21	₹225	85% off
22	₹199	80% off
23	₹699	61% off
24	₹249	84% off
25	₹249	84% off
26	₹189	81% off
27	₹199	80% off
28	₹179	87% off
29	₹474	76% off
30	₹229	80% off
31	₹292	85% off
32	₹164	86% off
33	₹320	78% off
34	₹349	86% off
35	₹229	84% off
36	₹683	14% off
37	₹239	88% off
38	₹719	20% off
39	₹199	80% off

```
nxt =  
driver.find_element_by_xpath('/html/body/div[1]/div/div[3]/div[1]/
```

```

div[2]/div[12]/div/div/nav/a[2]')
nxt.click()

## extracting brand names
brand_tags=driver.find_elements_by_xpath("//div[@class='_2WkVRV']")
len(brand_tags)

40

brand_tags

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```

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```

```

brand_name=[]
for i in brand_tags:
    brand_name.append(i.text)
len(brand_name)
brand_name

```

```

['SHAAH COLLECTIONS',
'kingsunglasses',
'SUNBEE',
'SKYZA INDIA',
'New Specs',
'New Specs',
'Singco India',
'IZAAN MART',
'SUNBEE',
'elegante',
'kingsunglasses',
'LIZA ANGEL',
'ROZZETTA CRAFT',
'ROZZETTA CRAFT',

```



```
'hipe',
'NuVew',
'SHAAH COLLECTIONS',
'ROYAL SON',
'NuVew',
'EYEWEARLABS',
'PHENOMENAL',
'ROYAL SON',
'AISLIN',
'AISLIN',
'SRPM',
'hipe',
'kingsunglasses',
'NuVew',
'New Specs',
'Fastrack',
'kingsunglasses',
'ROZZETTA CRAFT',
'PIRASO',
'kingsunglasses',
'PHENOMENAL',
'ROYAL SON',
'ROZZETTA CRAFT',
'ROZZETTA CRAFT',
'PHENOMENAL',
'AISLIN']
```

###Extracting Product Description

```
prod_tags=driver.find_elements_by_xpath("//a[@class='IRpwTa']")
len(prod_tags)
```

38

prod_tags

```
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```

```

prod_descp=[]
for i in prod_tags:
    prod_descp.append(i.text)
len(prod_descp)
prod_descp

['UV Protection, Polarized, Mirrored Rectangular Sunglass...',
'UV Protection Round Sunglasses (54)',
'UV Protection, Polarized, Mirrored Retro Square Sunglas...',
'UV Protection Aviator Sunglasses (Free Size)',
'UV Protection Round Sunglasses (Free Size)',
'Riding Glasses, UV Protection, Others Aviator Sunglasse...',
'UV Protection Rectangular Sunglasses (55)',
'UV Protection, Polarized, Mirrored Round Sunglasses (Fr...',
'Polarized, Riding Glasses, Night Vision Sports, Wrap-ar...',
'UV Protection, Night Vision Wayfarer Sunglasses (Free S...',
'UV Protection, Riding Glasses, Night Vision Spectacle ...',
'UV Protection, Gradient Rectangular Sunglasses (Free Si...',
'UV Protection, Gradient Rectangular Sunglasses (Free Si...',
'UV Protection, Gradient, Mirrored, Riding Glasses Aviat...',
'UV Protection, Night Vision, Riding Glasses Aviator Sun...',
'UV Protection Round Sunglasses (Free Size)',
'Mirrored Aviator Sunglasses (55)',
'UV Protection Sports Sunglasses (62)',
'UV Protection Clubmaster Sunglasses (Free Size)',
'UV Protection, Gradient Wayfarer Sunglasses (55)',
'UV Protection, Gradient Round, Cat-eye Sunglasses (60)',
'Toughened Glass Lens, UV Protection Rectangular Sunglas...',
'UV Protection Wayfarer Sunglasses (53)',
'UV Protection Sports Sunglasses (Free Size)',
'UV Protection Rectangular Sunglasses (55)',
'UV Protection Cat-eye Sunglasses (60)',
'UV Protection, Mirrored Sports Sunglasses (Free Size)',
'UV Protection Wayfarer Sunglasses (52)',
'UV Protection Round Sunglasses (Free Size)',
'Polarized, UV Protection Wayfarer Sunglasses (Free Size...',
'UV Protection Butterfly Sunglasses (65)',
'Mirrored, UV Protection Wayfarer, Rectangular Sunglasse...',
'UV Protection Retro Square Sunglasses (Free Size)',
'Polarized, UV Protection, Gradient Over-sized, Butterfl...',
'UV Protection Rectangular Sunglasses (Free Size)',
'UV Protection Retro Square Sunglasses (Free Size)',
'UV Protection, Mirrored Clubmaster Sunglasses (Free Siz...',
'Toughened Glass Lens, UV Protection Aviator, Wrap-aroun...']

##Extracting price
price_tags=driver.find_elements_by_xpath("//div[@class='_30jeq3']")
len(price_tags)

```

price_tags

```
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  <selenium.webdriver.remote.webelement.WebElement
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```

```
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```

```

4021-8c12-c9849bf56ccb">,
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4085-a671-ecb66578e462">]

```

```

price=[]
for i in price_tags:
    price.append(i.text)
len(price)
price

```

```

['₹181',
'₹186',
'₹230',
'₹315',
'₹183',
'₹239',
'₹208',
'₹330',
'₹284',
'₹499',
'₹258',
'₹199',
'₹379',
'₹330',
'₹209',
'₹188',
'₹284',
'₹379',
'₹327',
'₹1,598',
'₹307',
'₹217',

```

```
'₹458',  
'₹775',  
'₹233',  
'₹258',  
'₹162',  
'₹377',  
'₹155',  
'₹639',  
'₹179',  
'₹425',  
'₹399',  
'₹258',  
'₹328',  
'₹1,234',  
'₹303',  
'₹474',  
'₹307',  
'₹998']
```

##extracting discounts

```
discounts_tags=driver.find_elements_by_xpath("//div[@class='_3Ay6Sb']"  
)  
len(discounts_tags)
```

40

discounts_tags

```
[<selenium.webdriver.remote.webelement.WebElement  
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```



```
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```

```
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(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="0bfe9454-a46e-
4555-9698-e34cbe7753f2")>]
```

```
Disc=[]
for i in discounts_tags:
    Disc.append(i.text)
len(Disc)
Disc
```

```
['81% off',
 '81% off',
 '82% off',
 '60% off',
 '88% off',
 '81% off',
 '86% off',
 '83% off',
 '83% off',
 '78% off',
 '82% off',
 '60% off',
 '81% off',
 '85% off',
 '79% off',
 '74% off',
 '83% off',
 '74% off',
 '73% off',
 '36% off',
 '84% off',
 '78% off',
 '73% off',
 '76% off',
 '76% off',
 '86% off',
 '87% off',
 '73% off',
 '88% off',
 '20% off',
 '82% off',
 '78% off',
 '84% off',
 '87% off',
 '83% off',
 '58% off',
 '79% off',
 '78% off',
 '84% off',
 '73% off']
```

```
len(Disc)
```

```

sunglasses_2=pd.DataFrame()
sunglasses_2['Brand']=brand_name[0:30]
sunglasses_2['Product_description']=prod_descp[0:30]
sunglasses_2['Price']=price[0:30]
sunglasses_2['Discounts']=Disc[0:30]
sunglasses_2

```

	Brand	Product_description \
0	SHAAH COLLECTIONS	UV Protection, Polarized, Mirrored Rectangular...
1	kingsunglasses	UV Protection Round Sunglasses (54)
2	SUNBEE	UV Protection, Polarized, Mirrored Retro Squar...
3	SKYZA INDIA	UV Protection Aviator Sunglasses (Free Size)
4	New Specs	UV Protection Round Sunglasses (Free Size)
5	New Specs	Riding Glasses, UV Protection, Others Aviator ...
6	Singco India	UV Protection Rectangular Sunglasses (55)
7	IZAAN MART	UV Protection, Polarized, Mirrored Round Sungl...
8	SUNBEE	Polarized, Riding Glasses, Night Vision Sports...
9	elegante	UV Protection, Night Vision Wayfarer Sunglasse...
10	kingsunglasses	UV Protection, Riding Glasses, Night Vision Sp...
11	LIZA ANGEL	UV Protection, Gradient Rectangular Sunglasses...
12	ROZZETTA CRAFT	UV Protection, Gradient Rectangular Sunglasses...
13	ROZZETTA CRAFT	UV Protection, Gradient, Mirrored, Riding Glas...
14	hipe	UV Protection, Night Vision, Riding Glasses Av...
15	NuVew	UV Protection Round Sunglasses (Free Size)
16	SHAAH COLLECTIONS	Mirrored Aviator Sunglasses (55)
17	ROYAL SON	UV Protection Sports Sunglasses (62)
18	NuVew	UV Protection Clubmaster Sunglasses (Free Size)
19	EYEWEARLABS	UV Protection, Gradient Wayfarer Sunglasses (55)
20	PHENOMENAL	UV Protection, Gradient Round, Cat-eye

Sunglas...

21	ROYAL SON	Toughened Glass Lens, UV Protection
Rectangula...		
22	AISLIN	UV Protection Wayfarer Sunglasses
(53)		
23	AISLIN	UV Protection Sports Sunglasses (Free
Size)		
24	SRPM	UV Protection Rectangular Sunglasses
(55)		
25	hipe	UV Protection Cat-eye Sunglasses
(60)		
26	kingsunglasses	UV Protection, Mirrored Sports Sunglasses
(Fre...		
27	NuVew	UV Protection Wayfarer Sunglasses
(52)		
28	New Specs	UV Protection Round Sunglasses (Free
Size)		
29	Fastrack	Polarized, UV Protection Wayfarer Sunglasses
(...		

	Price	Discounts
0	₹181	81% off
1	₹186	81% off
2	₹230	82% off
3	₹315	60% off
4	₹183	88% off
5	₹239	81% off
6	₹208	86% off
7	₹330	83% off
8	₹284	83% off
9	₹499	78% off
10	₹258	82% off
11	₹199	60% off
12	₹379	81% off
13	₹330	85% off
14	₹209	79% off
15	₹188	74% off
16	₹284	83% off
17	₹379	74% off
18	₹327	73% off
19	₹1,598	36% off
20	₹307	84% off
21	₹217	78% off
22	₹458	73% off
23	₹775	76% off
24	₹233	76% off
25	₹258	86% off
26	₹162	87% off
27	₹377	73% off

```
28      ₹155      88% off
29      ₹639      20% off
```

```
nxt =
driver.find_element_by_xpath('/html/body/div[1]/div/div[3]/div[1]/
div[2]/div[12]/div/div/nav/a[4]')
nxt.click()
```

```
##Extracting Brand
```

```
brand_tags=driver.find_elements_by_xpath("//div[@class='_2WkVRV']")
len(brand_tags)
```

```
40
```

```
brand_tags[0:20]
```

```
[<selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="6a59f072-0bef-
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```

```
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="23795946-4743-47db-ad25-aa428bc186b8")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="5378db0c-694a-4772-a41b-bc1cba46c5a9")>]
```

```
brand_name=[]
for i in brand_tags:
    brand_name.append(i.text)
len(brand_name)
brand_name[0:20]
```

```
['Fastrack',
 'PHENOMENAL',
 'SRPM',
 'VILLAIN',
 'PHENOMENAL',
 'AISLIN',
 'kingsunglasses',
 'IZAAN MART',
 'Fastrack',
 'Silver Kartz',
 'AISLIN',
 'AISLIN',
 'ROZZETTA CRAFT',
 'Fastrack',
 'Singco India',
 'ROZZETTA CRAFT',
 'NuVew',
 'kingsunglasses',
```

```

'kingsunglasses',
'NuVew']

brand_name=[]
for i in brand_tags:
    brand_name.append(i.text)
len(brand_name)
brand_name[0:20]

```

```

['Fastrack',
'PHENOMENAL',
'SRPM',
'VILLAIN',
'PHENOMENAL',
'AISLIN',
'kingsunglasses',
'IZAAN MART',
'Fastrack',
'Silver Kartz',
'AISLIN',
'AISLIN',
'ROZZETTA CRAFT',
'Fastrack',
'Singco India',
'ROZZETTA CRAFT',
'NuVew',
'kingsunglasses',
'kingsunglasses',
'NuVew']

```

##Extracting Product Description

```

prod_tags=driver.find_elements_by_xpath("//a[@class='IRpwTa']")
len(prod_tags)

```

39

```

prod_tags[0:20]

```

```

[<selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="ab3e0fd0-3575-
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```



```
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="94c68442-990e-42e2-abeb-34922fdd0a68")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="70310ecd-deee-4457-91ab-271d10ba90d2")>]
```

```
prod_descp=[]
```

```
for i in prod_tags:
```

```

        prod_descp.append(i.text)
    len(prod_descp)
    prod_descp[0:20]

```

```

['UV Protection Wayfarer Sunglasses (Free Size)',
'UV Protection, Mirrored Retro Square Sunglasses (53)',
'Night Vision, UV Protection Round Sunglasses (54)',
'Others Wayfarer Sunglasses (Free Size)',
'UV Protection, Mirrored Retro Square Sunglasses (53)',
'Toughened Glass Lens, UV Protection Wayfarer, Rectangul...',
'Mirrored, UV Protection Wayfarer Sunglasses (53)',
'UV Protection, Night Vision Aviator Sunglasses (Free Si...',
'UV Protection Wayfarer Sunglasses (Free Size)',
'UV Protection Aviator Sunglasses (88)',
'Toughened Glass Lens, UV Protection Aviator Sunglasses ...',
'UV Protection, Gradient Round, Cat-eye Sunglasses (60)',
'UV Protection, Gradient Retro Square Sunglasses (Free S...',
'Gradient, UV Protection Wayfarer Sunglasses (Free Size)',
'Gradient, Toughened Glass Lens, UV Protection Retro Squ...',
'Polarized, UV Protection Wrap-around, Sports Sunglasses...',
'UV Protection, Mirrored Sports Sunglasses (62)',
'UV Protection Rectangular Sunglasses (Free Size)',
'Mirrored, UV Protection Aviator Sunglasses (56)',
'UV Protection Aviator Sunglasses (57)']

```

##Extracting price

```

price_tags=driver.find_elements_by_xpath("//div[@class='_30jeq3']")
len(price_tags)

```

40

```

price_tags[0:20]

```

```

[<selenium.webdriver.remote.webelement.WebElement
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<selenium.webdriver.remote.webelement.WebElement
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<selenium.webdriver.remote.webelement.WebElement
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48ea-8f5e-6b3b9e0b4428")>,
<selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="94651e23-8385-
4e23-bac6-646e7da6165f")>,

```

```

<selenium.webdriver.remote.webelement.WebElement
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4daf-b903-63cab89267ec")>,
<selenium.webdriver.remote.webelement.WebElement
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4aa4-ae77-d7996dcc6b7d")>,
<selenium.webdriver.remote.webelement.WebElement
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<selenium.webdriver.remote.webelement.WebElement
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<selenium.webdriver.remote.webelement.WebElement
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<selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="1fc9df7d-6cde-
4075-abfd-8fbb7be88806")>,
<selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="fdd4fe20-8325-
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<selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="1f9655a2-eb66-
4e0f-904d-c84339eea359")>]

```

```

price=[]
for i in price_tags:
    price.append(i.text)
len(price)
price[0:20]

```

```

['₹639',
 '₹317',

```

```
'₹199',  
'₹522',  
'₹317',  
'₹775',  
'₹258',  
'₹399',  
'₹639',  
'₹320',  
'₹785',  
'₹458',  
'₹307',  
'₹639',  
'₹664',  
'₹475',  
'₹327',  
'₹180',  
'₹219',  
'₹175']
```

##extracting discounts

```
discounts_tags=driver.find_elements_by_xpath("//div[@class='_3Ay6Sb']"  
)  
len(discounts_tags)
```

40

```
prod_tags[0:20]
```

```
[<selenium.webdriver.remote.webelement.WebElement  
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="ab3e0fd0-3575-  
490d-990f-f36670b7492e")>,  
 <selenium.webdriver.remote.webelement.WebElement  
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="1f469ef1-9192-  
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 <selenium.webdriver.remote.webelement.WebElement  
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41c8-9b10-0cdeb4666eda")>,  
 <selenium.webdriver.remote.webelement.WebElement  
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="f1022524-6ca2-  
4ba2-8eb0-f30501272bb9")>,  
 <selenium.webdriver.remote.webelement.WebElement  
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="578dc1ac-06f9-  
44a3-9377-d7b8c6b6eb86")>,  
 <selenium.webdriver.remote.webelement.WebElement  
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="af14363c-d214-  
43d2-9a83-0095e63be522")>,  
 <selenium.webdriver.remote.webelement.WebElement  
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="3616e72f-1126-  
497a-8d2d-857319c08628")>,  
 <selenium.webdriver.remote.webelement.WebElement
```

```
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="722bc648-f9ae-45e8-92a1-e87f771ee4b8")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="c78ba965-5420-4eb0-a0c7-0c25dac2517b")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="7abb82b0-3e28-4bdd-a8e2-d3b5b3f77c6b")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="c8284b98-016d-4dd1-a1fe-336373f178a0")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="409235ff-9ff0-434a-a310-2e6c24123d8c")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="a0b3468b-2f41-42be-b229-0f7779a6e809")>,
  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="bb29b1c2-7b9d-4d70-9392-32f0c8581fdd")>,
  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="7c36b9e0-5c89-4cb1-a0dc-797ad961e4f7")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="ef02b64e-e329-4673-9cb5-620f8359eced")>,
  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="c39ebd1f10da03fdf3e00caaa5f67aa1", element="70310ecd-deee-4457-91ab-271d10ba90d2")>]
```

```
price=[]
for i in price_tags:
    price.append(i.text)
len(price)
price[0:20]
```

```
['₹639',
 '₹317',
 '₹199',
 '₹522',
 '₹317',
 '₹775',
```

```
'₹258',  
'₹399',  
'₹639',  
'₹320',  
'₹785',  
'₹458',  
'₹307',  
'₹639',  
'₹664',  
'₹475',  
'₹327',  
'₹180',  
'₹219',  
'₹175']
```

##extracting discounts

```
discounts_tags=driver.find_elements_by_xpath("//div[@class='_3Ay6Sb']"  
)  
len(discounts_tags)
```

40

discounts_tags

```
[<selenium.webdriver.remote.webelement.WebElement  
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```
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```

```
Disc=[]
for i in discounts_tags:
    Disc.append(i.text)
len(Disc)
Disc
```



```
['20% off',  
 '84% off',  
 '80% off',  
 '47% off',  
 '84% off',  
 '79% off',  
 '87% off',  
 '66% off',  
 '20% off',  
 '73% off',  
 '78% off',  
 '73% off',  
 '84% off',  
 '20% off',  
 '77% off',  
 '76% off',  
 '73% off',  
 '83% off',  
 '83% off',  
 '76% off',  
 '68% off',  
 '88% off',  
 '85% off',  
 '76% off',  
 '82% off',  
 '76% off',  
 '84% off',  
 '73% off',  
 '69% off',  
 '78% off',  
 '88% off',  
 '77% off',  
 '87% off',  
 '86% off',  
 '88% off',  
 '73% off',  
 '86% off',  
 '73% off',  
 '84% off',  
 '76% off']
```

```
len(Disc)
```

```
40
```

```
Disc[0:20]
```

```
['20% off',  
 '84% off',  
 '80% off',  
 '47% off',
```

'84% off',
 '79% off',
 '87% off',
 '66% off',
 '20% off',
 '73% off',
 '78% off',
 '73% off',
 '84% off',
 '20% off',
 '77% off',
 '76% off',
 '73% off',
 '83% off',
 '83% off',
 '76% off']

```
sunglasses_3=pd.DataFrame()  
sunglasses_3['Brand']=brand_name[0:30]  
sunglasses_3['Product_description']=prod_descp[0:30]  
sunglasses_3['Price']=price[0:30]  
sunglasses_3['Discounts']=Disc[0:30]  
sunglasses_3
```

	Brand	Product_description
Price \		
0	Fastrack	UV Protection Wayfarer Sunglasses (Free Size)
₹639		
1	PHENOMENAL	UV Protection, Mirrored Retro Square Sunglasse...
₹317		
2	SRPM	Night Vision, UV Protection Round Sunglasses (54)
₹199		
3	VILLAIN	Others Wayfarer Sunglasses (Free Size)
₹522		
4	PHENOMENAL	UV Protection, Mirrored Retro Square Sunglasse...
₹317		
5	AISLIN	Toughened Glass Lens, UV Protection Wayfarer, ...
₹775		
6	kingsunglasses	Mirrored, UV Protection Wayfarer Sunglasses (53)
₹258		
7	IZAAN MART	UV Protection, Night Vision Aviator Sunglasses...
₹399		
8	Fastrack	UV Protection Wayfarer Sunglasses (Free Size)
₹639		
9	Silver Kartz	UV Protection Aviator Sunglasses (88)
₹320		
10	AISLIN	Toughened Glass Lens, UV Protection Aviator Su...
₹785		
11	AISLIN	UV Protection, Gradient Round, Cat-eye Sunglas...
₹458		
12	ROZZETTA CRAFT	UV Protection, Gradient Retro Square Sunglasse...

₹307			
13	Fastrack	Gradient, UV Protection Wayfarer Sunglasses (F...	
₹639			
14	Singco India	Gradient, Toughened Glass Lens, UV Protection ...	
₹664			
15	ROZZETTA CRAFT	Polarized, UV Protection Wrap-around, Sports S...	
₹475			
16	NuVew	UV Protection, Mirrored Sports Sunglasses (62)	
₹327			
17	kingsunglasses	UV Protection Rectangular Sunglasses (Free Size)	
₹180			
18	kingsunglasses	Mirrored, UV Protection Aviator Sunglasses (56)	
₹219			
19	NuVew	UV Protection Aviator Sunglasses (57)	
₹175			
20	ROYAL SON	UV Protection Rectangular, Retro Square Sun gla...	
₹474			
21	Elligator	UV Protection Aviator Sunglasses (55)	
₹293			
22	GANSTA	UV Protection Aviator Sunglasses (57)	
₹284			
23	AISLIN	UV Protection, Gradient Round Sunglasses (Free...	
₹775			
24	ROZZETTA CRAFT	Mirrored Wayfarer Sunglasses (55)	
₹342			
25	hipe	UV Protection, Mirrored Round Sunglasses (Free...	
₹233			
26	kingsunglasses	Night Vision, Riding Glasses, UV Protection Wr...	
₹239			
27	VAST	UV Protection, Gradient Butterfly, Retro Squar...	
₹799			
28	AISLIN	Polarized, Riding Glasses, Night Vision Sports...	
₹458			
29	elegante	Mirrored Round Sunglasses (53)	
₹499			

Discounts

0	20% off
1	84% off
2	80% off
3	47% off
4	84% off
5	79% off
6	87% off
7	66% off
8	20% off
9	73% off
10	78% off
11	73% off
12	84% off

```

13    20% off
14    77% off
15    76% off
16    73% off
17    83% off
18    83% off
19    76% off
20    68% off
21    88% off
22    85% off
23    76% off
24    82% off
25    76% off
26    84% off
27    73% off
28    69% off
29    78% off

```

```
df_sunglasses = pd.concat([sunglasses_1,sunglasses_2,
sunglasses_3])
```

```
df_sunglasses
```

Price \	Brand	Product_description
0 ₹198	SRPM	UV Protection Wayfarer Sunglasses (50)
1 ₹258	Elligator	UV Protection Round Sunglasses (54)
2 ₹232	New Specs	UV Protection Rectangular Sunglasses (Free Size)
3 ₹664	Singco India	Gradient, Toughened Glass Lens, UV Protection ...
4 ₹719	Fastrack	UV Protection Wayfarer Sunglasses (Free Size)
..
...		
25 ₹233	hipe	UV Protection, Mirrored Round Sunglasses (Free...
26 ₹239	kingsunglasses	Night Vision, Riding Glasses, UV Protection Wr...
27 ₹799	VAST	UV Protection, Gradient Butterfly, Retro Squar...
28 ₹458	AISLIN	Polarized, Riding Glasses, Night Vision Sports...
29 ₹499	elegante	Mirrored Round Sunglasses (53)

```
Discounts
```

```

0      84% off
1      89% off
2      91% off
3      77% off
4      20% off
..
25     76% off
26     84% off
27     73% off
28     69% off
29     78% off

```

```
[100 rows x 4 columns]
```

```
df_sunglasses.head(50)
```

	Brand	Product_description \
0	SRPM	UV Protection Wayfarer Sunglasses
(50)		
1	Elligator	UV Protection Round Sunglasses
(54)		
2	New Specs	UV Protection Rectangular Sunglasses (Free
Size)		
3	Singco India	Gradient, Toughened Glass Lens, UV
Protection ...		
4	Fastrack	UV Protection Wayfarer Sunglasses (Free
Size)		
5	SUNBEE	UV Protection, Polarized Wayfarer Sunglasses
(...		
6	Lee Topper	Riding Glasses Wrap-around Sunglasses (Free
Size)		
7	ROZZETTA CRAFT	UV Protection, Gradient Retro Square
Sunglasse...		
8	Fastrack	UV Protection Rectangular Sunglasses (Free
Size)		
9	PIRASO	UV Protection Aviator Sunglasses
(54)		
10	SHAAH COLLECTIONS	UV Protection, Polarized, Mirrored
Rectangular...		
11	ROZZETTA CRAFT	UV Protection, Gradient Retro Square
Sunglasse...		
12	SRPM	UV Protection Wayfarer Sunglasses
(54)		
13	GANSTA	UV Protection, Riding Glasses Wayfarer
Sunglas...		
14	New Specs	Mirrored, UV Protection, Riding Glasses,
Other...		

15	SKYZA INDIA	UV Protection, Mirrored Spectacle Sunglasses
(...)		
16	SRPM	Others Wayfarer, Retro Square Sunglasses
(50)		
17	kingsunglasses	UV Protection, Riding Glasses, Mirrored
Wayfar...		
18	kingsunglasses	UV Protection Round Sunglasses (Free
Size)		
19	DAHAAZIL	UV Protection, Night Vision, Riding Glasses
Wa...		
20	PHENOMENAL	UV Protection Retro Square Sunglasses
(53)		
21	PIRASO	UV Protection Wayfarer Sunglasses
(32)		
22	Lee Topper	UV Protection Rectangular Sunglasses (Free
Size)		
23	VOYAGE	Gradient, UV Protection Wayfarer Sunglasses
(52)		
24	PIRASO	UV Protection Aviator Sunglasses
(54)		
25	PIRASO	UV Protection Aviator Sunglasses
(54)		
26	Elligator	UV Protection Round Sunglasses
(53)		
27	LIZA ANGEL	Riding Glasses, Night Vision Spectacle
Sunglas...		
28	hipe	UV Protection Aviator Sunglasses (Free
Size)		
29	ROZZETTA CRAFT	Polarized, Riding Glasses Sports, Wrap-
around ...		
30	DEIXELS	UV Protection Aviator, Wayfarer Sunglasses
(Fr...		
31	Singco	UV Protection, Others Aviator Sunglasses
(32)		
32	Elligator	Others Cat-eye, Retro Square, Wayfarer
Sunglas...		
33	Silver Kartz	UV Protection Wayfarer Sunglasses (Free
Size)		
34	PIRASO	UV Protection Aviator Sunglasses
(58)		
35	I Flash	Gradient, Night Vision, UV Protection,
Others ...		
36	Fastrack	UV Protection Wayfarer Sunglasses
(55)		
37	kingsunglasses	Mirrored, UV Protection Wayfarer Sunglasses
(F...		
38	Fastrack	UV Protection Wayfarer Sunglasses (Free
Size)		
39	DAHAAZIL	UV Protection, Night Vision, Riding Glasses
Ro...		

0	SHAAH COLLECTIONS	UV Protection, Polarized, Mirrored Rectangular...
1	kingsunglasses	UV Protection Round Sunglasses (54)
2	SUNBEE	UV Protection, Polarized, Mirrored Retro Squar...
3	SKYZA INDIA	UV Protection Aviator Sunglasses (Free Size)
4	New Specs	UV Protection Round Sunglasses (Free Size)
5	New Specs	Riding Glasses, UV Protection, Others Aviator ...
6	Singco India	UV Protection Rectangular Sunglasses (55)
7	IZAAN MART	UV Protection, Polarized, Mirrored Round Sungl...
8	SUNBEE	Polarized, Riding Glasses, Night Vision Sports...
9	elegante	UV Protection, Night Vision Wayfarer Sunlasse...

	Price	Discounts
0	₹198	84% off
1	₹258	89% off
2	₹232	91% off
3	₹664	77% off
4	₹719	20% off
5	₹253	80% off
6	₹275	88% off
7	₹449	77% off
8	₹639	20% off
9	₹249	84% off
10	₹165	90% off
11	₹449	82% off
12	₹170	82% off
13	₹198	88% off
14	₹263	81% off
15	₹398	60% off
16	₹178	82% off
17	₹184	84% off
18	₹289	81% off
19	₹229	77% off
20	₹289	71% off
21	₹225	85% off
22	₹199	80% off
23	₹699	61% off
24	₹249	84% off
25	₹249	84% off
26	₹189	81% off
27	₹199	80% off

28	₹179	87% off
29	₹474	76% off
30	₹229	80% off
31	₹292	85% off
32	₹164	86% off
33	₹320	78% off
34	₹349	86% off
35	₹229	84% off
36	₹683	14% off
37	₹239	88% off
38	₹719	20% off
39	₹199	80% off
0	₹181	81% off
1	₹186	81% off
2	₹230	82% off
3	₹315	60% off
4	₹183	88% off
5	₹239	81% off
6	₹208	86% off
7	₹330	83% off
8	₹284	83% off
9	₹499	78% off

###5

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

```
driver=webdriver.Chrome(r"C:/Users/Lenovo/Downloads/
chromedriver_win32/chromedriver.exe")
```

```
url = "https://www.flipkart.com/apple-iphone-11-black-64-gb-includes-
earpods-power_adapter/p/itm0f37c2240b217?
pid=MOBFKCTSVZAXUHGR&lid=LSTM0BFKCTSVZAXUHGREPBFGI&marketplace"
driver.get(url)
```

```
search_btn=driver.find_element_by_xpath("/html/body/div[1]/div/
div[3]/div[1]/div[2]/div[8]/div/div/div[5]/div/a/div/span")
search_btn.click()
```

##Extracting Rating

```
brand_Rating=driver.find_elements_by_xpath("//div[@class='_3LWZlK
```



```

_1BLPMq']")
len(brand_Rating)

10

brand_Rating

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49b6-8219-2986fd4f9746")>]

brand_Ratings=[]
for i in brand_Rating:
    brand_Ratings.append(i.text)
len(brand_Ratings)
brand_Ratings

['5', '5', '5', '5', '5', '5', '5', '5', '4', '5', '5']

##Extracting rating tags
brand_Rating_tags=driver.find_elements_by_xpath("//p[@class='_2-
N8zT']")
len(brand_Rating_tags)

10

```

brand_Rating_tags

```
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(session="cda0051eaaf40eb966fab3b55b4de9bb", element="b4dce294-22b4-
40d9-94d7-e4dlacccf334")>]
```

```
tags=[]
for i in brand_Rating_tags:
    tags.append(i.text)
len(tags)
tags
```

```
['Brilliant',
 'Simply awesome',
 'Best in the market!',
 'Perfect product!',
 'Fabulous!',
 'Worth every penny',
 'Great product',
 'Good choice',
 'Highly recommended',
 'Worth every penny']
```

```
#### extracting review description
```

```
brand_review_descp=driver.find_elements_by_xpath("//div[@class='t-ZTKy']")
```

```
len(brand_review_descp)
```

```
10
```

```
brand_review_descp
```

```
[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="afc897c1-312d-4a10-a762-a06da654d638")>,
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(session="cda0051eaaf40eb966fab3b55b4de9bb", element="89fb37a9-0732-4a17-956c-d54a62af683d")>]
```

```
review_description =[]
```

```
for i in brand_review_descp:
```

```
    review_description.append(i.text)
```

```
len(review_description)
```

```
review_description
```

```
['The Best Phone for the Money\n\nThe iPhone 11 offers superb cameras, a more durable design and excellent battery life for an affordable price.\n\nCompelling ultra-wide camera\nNew Night mode is excellent\nLong battery life',
```

```
 'Really satisfied with the Product I received... It's totally genuine
```

and the packaging was also really good so if ur planning to buy just go for it.',

'Great iPhone very snappy experience as apple kind. Upgraded from iPhone 7.\nPros\n-Camera top class\n- Battery top performed\n-Chipset no need to say as apple kind\n-Security as you expect from apple\n-Display super bright industry leading colour\naccuracy and super responsive\n-Build quality as expect from apple sturdy\npremium durable beautiful stylish.\n-0s most stable os in smartphone industry\n\nCons\n-No 5G\n-Display is not based on OLED technology\n-Charger headphones and 1 apple stic...\nREAD MORE',

'Amazing phone with great cameras and better battery which gives you the best performance. I just love the camera .',

'This is my first iOS phone. I am very happy with this product. Very much satisfied with this. I love this phone.',

'Previously I was using one plus 3t it was a great phone\nAnd then I decided to upgrade I am stuck between Samsung s10 plus or iPhone 11\nI have seen the specs and everything were good except the display it's somewhere between 720-1080 and it's not even an amoled it's an LCD display\nBut I decided to go with iPhone because I have never used an IOS device I have Been an android user from the past 9 years I ordered iPhone 11 (128gb) product red\nMy experience after using 3 weeks\n1. The delivery ...\nREAD MORE',

'Amazing Powerful and Durable Gadget.\n\nI'm am very happy with the camera picture quality, Amazing face id unlocked in dark room, Strong battery with perfect screen size as you can carry easily in pocket. This is my third iPhone.\n\nI shifted from android Samsung Note series to iPhone because of the strong build quality and peace of mind for next 3-4 years.\n\nDon't think to much just go for it and I suggest you to go for minimum 128gb variant or more 256gb.\n\nI've attached my puppy pics and no fi...\nREAD MORE',

'So far it's been an AMAZING experience coming back to iOS after nearly a decade but it's not as versatile as android though phone is sturdy dropped it accidentally a couple of times and nothing happened fortunately camera is awesome',

'What a camerajust awesome ..you can feel this iPhone just awesome . Good for gaming also ...try pubg in hd it's just wow',

'ill is worthy to buy, too much happy with the product. Thank u flipkart I received the item on time..loved it..']

```
review_1=pd.DataFrame()
review_1['Ratings']=brand_Ratings
review_1['Rating_tags']=tags
review_1['Rating_Description']=review_description
review_1
```

	Ratings	Rating_tags	\
0	5	Brilliant	
1	5	Simply awesome	
2	5	Best in the market!	
3	5	Perfect product!	
4	5	Fabulous!	

5	5	Worth every penny
6	5	Great product
7	4	Good choice
8	5	Highly recommended
9	5	Worth every penny

	Rating	Description
0		The Best Phone for the Money\n\nThe iPhone 11 ...
1		Really satisfied with the Product I received.....
2		Great iPhone very snappy experience as apple k...
3		Amazing phone with great cameras and better ba...
4		This is my first iOS phone. I am very happy wi...
5		Previously I was using one plus 3t it was a gr...
6		Amazing Powerful and Durable Gadget.\n\nI'm am...
7		So far it's been an AMAZING experience coming ...
8		What a camerajust awesome ..you can feel...
9		ill is worthy to buy, too much happy with the ...

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div/div/div[2]/div[13]/div/div/nav/a[2]")
next_pg.click()
```

##Extracting Rating

```
brand_Rating_2=driver.find_elements_by_xpath("//div[@class='_3LWZlK_1BLPMq']")
len(brand_Rating_2)
```

10

brand_Rating_2

```
[<selenium.webdriver.remote.webelement.WebElement
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```

```

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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="dd4d3602-1a38-
44bc-9278-7c7200ed434b")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="fa884c4c-0b0d-
4c6d-8781-83f24e37691c")>]

```

```

brand_Ratings_2=[]
for i in brand_Rating_2:
    brand_Ratings_2.append(i.text)
len(brand_Ratings_2)
brand_Ratings_2

['5', '5', '5', '5', '5', '5', '5', '5', '5', '5']

```

##Extracting rating tags

```

brand_Rating_tags_2=driver.find_elements_by_xpath("//p[@class='_2-
N8zT']")
len(brand_Rating_tags_2)

10

```

brand_Rating_tags_2

```

[<selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="871d664e-8d13-
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  <selenium.webdriver.remote.webelement.WebElement
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```

```

4c8b-957a-3a33ad6cc4cb">,
    <selenium.webdriver.remote.webelement.WebElement
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(session="cda0051eaaf40eb966fab3b55b4de9bb", element="b86e1296-7817-
496d-9604-34f9c439f436">,
    <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="5a0a19e7-772c-
4d3c-8d2b-0daac78decf0">]

```

```

tags_2=[]
for i in brand_Rating_tags_2:
    tags_2.append(i.text)
len(tags_2)
tags_2

```

```

['Highly recommended',
 'Perfect product!',
 'Perfect product!',
 'Highly recommended',
 'Perfect product!',
 'Worth every penny',
 'Simply awesome',
 'Worth every penny',
 'Classy product',
 'Worth every penny']

```

extracting review description

```

brand_review_descp_2=driver.find_elements_by_xpath("//div[@class='t-
ZTKy']")
len(brand_review_descp_2)

```

```
10
```

```
brand_review_descp_2
```

```

[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="6ab819ec-9288-
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    <selenium.webdriver.remote.webelement.WebElement
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    <selenium.webdriver.remote.webelement.WebElement
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4a29-85d2-842a3cd554e7">,
    <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="a16f1a70-2495-

```



```

4cd8-8bfc-77c07c6af6f6")>,
  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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4ecb-b8b8-07feceec8907")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="b0f2a5e7-ae89-
4224-97c8-071d78980999")>]

```

```

review_description_2 =[]
for i in brand_review_descp_2:
    review_description_2.append(i.text)
len(review_description_2)
review_description_2

```

['iphone 11 is a very good phone to buy only if you can compromise for the display. The display on this is device is pretty good but you can get other options with better displays in this price segment.\nIf you can survive with an HD+ LCD panel with thicker bezels and a notch up top then this is a very good phone for you.\nCameras are awesome, battery backup excellent, great performance and a decent premium look. Good job Apple !',

'It's a must buy who is looking for an upgrade from previous generation of iPhones. If you are using XR then still you can hold on for sometime and upgrade to 2020 model else this phone is a must buy . Camera quality is amazing and wide angle is something to count upon. Performance wise it's amazing and feels premium while holding in hand. So a big YES for this device. Go for 128 GB variant as the 4K videos will occupy lots of space and the storage can get over very quickly. Try to buy it with...\nREAD MORE',

'Value for money♥♥\nIts awesome mobile phone in the world ...\nDisplay was very good and bright ..\nTrust me freinds you r never regret after Buying..\nJust go for it....\nI love this phone and i switch to iphone x to 11',

"It's my first time to use iOS phone and I am loving my upgradation ☺☺ I love the color, I love the assebility of the phone....I need to learn more about its functionality, but as far as I have seen, it's quite easy and it has a lot of functions to work on, specially if you are a content writer or a blogger you get a lot of content creation platforms and they are really amazing.\n\nThis phone not only for good quality photography but a lot of other task too.☺

□",

"Iphone is just awesome.. battery backup is very very nice..

continuously for 10 hours we can use it.camera is just awesome..
display is just fab.i love it alot..i had to wait 15 days for it as i
pre ordered it..overall it's worth the price..these all images are
clicked by my iPhone..and i love it.",

'Best budget Iphone till date ♥ go for it guys without second thought. Let me explain you guys about Camera, Display, battery, and performance.\n\nCamera: at this price range there is no comparison of camera, you'll love the picture quality as well as video quality. I am a Vlogger I wanted an iPhone with 4k video by front camera and I got this phone and I am more than happy 😊\n\nBattery: I use this phone roughly as I am active social media person and I have a youtube channel. so the battery ba...\nREAD MORE',

'Excellent camera, good performance, no lag. The lcd display is also good.. but difference come when we watch movie in prime and Netflix, the colours are not vibrant.. as we see in amoled display.. and the charger in box is of 5 watts.. takes more than 3 hours to charge from 0 to 100.. so guys be prepare to buy 18 watts charger . Finally I am an android user, it was my first Iapple phone, I promise u guys the iOS is so smooth.. overall the phone is damn good.... close eyes to buy it.. thanks t...\nREAD MORE',

'Smooth like butter, camera like fantabulous, sound is crystal clear & its red color is damn attractive, i am just loving it. Must buy if you love photography.\n\nLucky to get it in sale, thank you Flipkart.',

'Totally in love with this ♥ the camera quality is amazing just love it 🥰🥰🥰 itssss damnnnnnnn amazing... Must buy iPhone 11 this is my best experience ever *👍👍👍👍👍👍 thanku apple ♥',

'It's been almost a month since I have been using this phone. I upgraded from an iPhone 8. The main issue with my 8 was battery and this phone is just awesome when it comes to battery. It lasts a day and a half for me with my regular use , internet connected always with 4g\nCan't move forward without saying this. Battery of this phone is a life saver when I am traveling or at work when I don't get the option to charge\nCamera is superb. Front cam selfies and back cam photos are just awesome.\n...\nREAD MORE']

```
review_2=pd.DataFrame()
review_2['Ratings']=brand_Ratings
review_2['Rating_tags']=tags
review_2['Rating_Description']=review_description
review_2
```

	Ratings	Rating_tags	\
0	5	Brilliant	
1	5	Simply awesome	
2	5	Best in the market!	
3	5	Perfect product!	
4	5	Fabulous!	
5	5	Worth every penny	
6	5	Great product	
7	4	Good choice	

8	5	Highly recommended
9	5	Worth every penny

	Rating	Description
0		The Best Phone for the Money\n\nThe iPhone 11 ...
1		Really satisfied with the Product I received.....
2		Great iPhone very snappy experience as apple k...
3		Amazing phone with great cameras and better ba...
4		This is my first iOS phone. I am very happy wi...
5		Previously I was using one plus 3t it was a gr...
6		Amazing Powerful and Durable Gadget.\n\nI'm am...
7		So far it's been an AMAZING experience coming ...
8		What a camerajust awesome ..you can feel...
9		ill is worthy to buy, too much happy with the ...

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div/div/div[2]/div[13]/div/div/nav/a[4]")
next_pg.click()
```

##Extracting Rating

```
brand_Rating_3=driver.find_elements_by_xpath("//div[@class='_3LWZLK_1BLPMq']")
len(brand_Rating_3)
```

10

brand_Rating_3

```
[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="9b4614a5-2c38-4b44-b801-682d604ffe39")>,
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<selenium.webdriver.remote.webelement.WebElement
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```

```
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  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="46737001-2d49-
4096-964e-cfea2c22349c")>]
```

```
brand_Ratings_3=[]
for i in brand_Rating_3:
    brand_Ratings_3.append(i.text)
len(brand_Ratings_3)
brand_Ratings_3

['5', '5', '4', '5', '5', '5', '5', '5', '4', '5']
```

##Extracting rating tags

```
brand_Rating_tags_3=driver.find_elements_by_xpath("//p[@class='_2-
N8zT']")
len(brand_Rating_tags_3)
```

10

```
brand_Rating_tags_3
```

```
[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="1a2465ae-7dcc-
45f1-8fc9-a4e67b3b4ed0")>,
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="4c2e5c88-ddfc-
```

```
4621-a782-adf8704550aa">,  
  <selenium.webdriver.remote.webelement.WebElement  
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="c29b7c0b-9e8a-  
40e7-849a-ecb509896bc7")>]
```

```
tags_3=[]  
for i in brand_Rating_tags_3:  
    tags_3.append(i.text)  
len(tags_3)  
tags_3
```

```
['Terrific',  
'Wonderful',  
'Nice product',  
'Perfect product!',  
'Classy product',  
'Brilliant',  
'Perfect product!',  
'Great product',  
'Good choice',  
'Must buy!']
```

extracting review description

```
brand_review_descp_3=driver.find_elements_by_xpath("//div[@class='t-  
ZTKy']")
```

```
len(brand_review_descp_3)
```

```
10
```

```
brand_review_descp_3
```

```
[<selenium.webdriver.remote.webelement.WebElement  
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  <selenium.webdriver.remote.webelement.WebElement  
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  <selenium.webdriver.remote.webelement.WebElement  
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43e4-9cdc-d3a0db18ea7a")>,  
  <selenium.webdriver.remote.webelement.WebElement  
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  <selenium.webdriver.remote.webelement.WebElement  
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4810-a3e7-3738bb8437a1")>,  
  <selenium.webdriver.remote.webelement.WebElement  
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```

```

43ae-bb5d-c1534fa3aa1c">,
  <selenium.webdriver.remote.webelement.WebElement
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4f4f-9e5c-4270589ccc8a")>,
  <selenium.webdriver.remote.webelement.WebElement
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4495-9182-62b41035c7b2")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="6a528ada-c7a1-
4081-b5cf-00e2c838e600")>]

```

```

review_description_3 =[]
for i in brand_review_descp_3:
    review_description_3.append(i.text)
len(review_description_3)
review_description_3

```

```

['Really worth of money. i just love it. It is the best phone ever.',
 'This is my first ever I phone. Before this I was using my google
nexus 5. But moving from android to iOS is a great experience. It's
worth at this price. I will highly recommend it if you want to move to
iOS. The best part of this phone is it's camera and it's battery life.
This two things have won my heart. I loved it. Happy to have it in my
hand. Still exploring its features. And can't forget to mention
Flipkart service. Very prompt service and fast delivery.',
 'Awesome Phone. Slightly high price but worth. Better than iPhone
XR.\nCamera is superb and wide angle camera is very clear.\n12MP
selfie camera is also very good.\nA13 Chip gives a very good and
smooth performance.',
 'Battery backup is extraordinary, camera is decent & performance
offered by A13 bionic is awsome. The display is good in practical
usage like the visibility of display is very good in direct sun light
compare to pro models. Iam extremely satisfied for the money I
spent.',
 'Superb Product !!!\nA big and worthy upgrade from mi 3S to iphone 11
.\nTotally loved it !',
 'I have migrated from OP 7pro... and trust me, iPhone 11 is totally
worth it.. following are the reasons:-\n1)there is ABSOLUTELY NO ISSUE
WITH THE DISPLAY... its crisp, sharp and I found it to be much much
better than OP7 pro. Netflix, Prime video all run crisply... you won't
miss a thing. True Tone works flawlessly...the display brightness is
perfect. OP have not calibrated their screens properly.\n2) iPhone 11
series have really good cameras... others have spoken in depth about
them.\n3) bat...\nREAD MORE',
 'It is just awesome mobile for this price from Apple,\n\nAfter 10
days review\n\nBattery enough for 1 day even 24*7 Internet will be on
and mostly internet usage\n\nCamera is just awesome cool , android 64
MP is equal to this just 12 MP\n\nA13 Bionic chip will give more high
performance without hanging\n\nAudio stereo speakers will give Dolby
atoms sound with crystal clear\n\nVideo recording is like cinematic
shots of every sec can be a 4K 60fps. Just awesome this phone\niPhone

```

11 loved one',

"Again back to apple iphone after a gap of 2-3 years. It's pleasure to use iOS and the quality product by Apple. Iphone 11 still works like a beast in 2021 also. It really capable of doing day to day usage as well as hard core gaming. Battery is awesome. I'm really too much satisfied with it. Apart fto the very gorgeous IPS LCD (AMOLED will be better) everything is mind boggling. Iphone👍.",

'Looking so good 🍏 😊 super 🍏 stylish 😊 phone\nClean box 🍏 good 🍏 delivery 🍏 fast delivery\nOriginal box Original iphone 🍏 🍏 😊😊😊',

'It's an amazing product from apple and the camera is simply superb. Phone is faster.Night shot is simply superb and detailing and colour differentiation from camera is an added advantage\n\nThis review I have written from iPhone 11 only and I am glad to say outside.\n\nCons wise if we see HD+ display only, no battery percentage indicator as in older iPhone 8.\nNo assistive touch control button in it\nNo oleophobic coating on back panel glass and finger prints are visible but since I bought mint gr...\nREAD MORE']

```
review_3=pd.DataFrame()
review_3['Ratings']=brand_Ratings
review_3['Rating_tags']=tags
review_3['Rating_Description']=review_description
review_3
```

	Ratings	Rating_tags \
0	5	Brilliant
1	5	Simply awesome
2	5	Best in the market!
3	5	Perfect product!
4	5	Fabulous!
5	5	Worth every penny
6	5	Great product
7	4	Good choice
8	5	Highly recommended
9	5	Worth every penny

	Rating_Description
0	The Best Phone for the Money\n\nThe iPhone 11 ...
1	Really satisfied with the Product I received.....
2	Great iPhone very snappy experience as apple k...
3	Amazing phone with great cameras and better ba...
4	This is my first iOS phone. I am very happy wi...
5	Previously I was using one plus 3t it was a gr...
6	Amazing Powerful and Durable Gadget.\n\nI'm am...
7	So far it's been an AMAZING experience coming ...
8	What a camerajust awesome ..you can feel...
9	ill is worthy to buy, too much happy with the ...

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div/div/div[2]/div[13]/div/div/nav/a[5]")
next_pg.click()
```

```
##Extracting Rating
```

```
brand_Rating_4=driver.find_elements_by_xpath("//div[@class='_3LWZlK  
_1BLPMq']")  
len(brand_Rating_4)
```

```
10
```

```
brand_Rating_4
```

```
[<selenium.webdriver.remote.webelement.WebElement  
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="13d0a996-0e3e-  
4318-925b-ffa8890b36ee")>,  
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453d-a363-6d36863bcb42")>,  
 <selenium.webdriver.remote.webelement.WebElement  
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="1b42f33f-c544-  
4255-ae3d-0c072f1ddela")>,  
 <selenium.webdriver.remote.webelement.WebElement  
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4dce-befb-2db312470513")>,  
 <selenium.webdriver.remote.webelement.WebElement  
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="553e1a48-7f96-  
4304-9efc-8f74c1c06a09")>]
```

```
brand_Ratings_4=[]
```

```
for i in brand_Rating_4:  
    brand_Ratings_4.append(i.text)  
len(brand_Ratings_4)  
brand_Ratings_4
```

```
['5', '5', '5', '5', '5', '5', '5', '5', '5', '4']
```

```
##Extracting rating tags
```

```
brand_Rating_tags_4=driver.find_elements_by_xpath("//p[@class='_2-
```



```

N8zT']")
len(brand_Rating_tags_4)

10

brand_Rating_tags_4

[<selenium.webdriver.remote.webelement.WebElement
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(session="cda0051eaaf40eb966fab3b55b4de9bb", element="f6ee8e2a-8d53-
4545-b7a2-0fb7d1fbf1ed")>,
 <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="9baae3fc-2034-
4ac8-97fb-729379855c02")>]

tags_4=[]
for i in brand_Rating_tags_4:
    tags_4.append(i.text)
len(tags_4)
tags_4

['Perfect product!',
 'Wonderful',
 'Terrific purchase',
 'Simply awesome',
 'Great product',
 'Terrific purchase',
 'Mind-blowing purchase',

```



```
'Excellent',  
'Simply awesome',  
'Good quality product']
```

```
#### extracting review description
```

```
brand_review_descp_4=driver.find_elements_by_xpath("//div[@class='t-  
ZTKy']")
```

```
len(brand_review_descp_4)
```

```
10
```

```
brand_review_descp_4
```

```
[<selenium.webdriver.remote.webelement.WebElement  
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="524abed1-fa48-  
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41e1-b5fb-cd5ed774ced7")>,  
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(session="cda0051eaaf40eb966fab3b55b4de9bb", element="671d4f95-643b-  
42f1-84ea-051bd26117c7")>]
```

```
review_description_4 =[]
```

```
for i in brand_review_descp_4:  
    review_description_4.append(i.text)  
len(review_description_4)  
review_description_4
```

['After 1 month use I found camera quality best compared to my previous Samsung note 10+.Display not good as note 10 also charging too slow.Apple should add fast charger like 11 plus and pro.Best phone for daily use',

'I just directly switch from iphone 6s to iphone 11 .The best premium smartphone I recommend to everyone. Excellent quality and colors the iphone have in 11 series.\nCamera quality is just awesome and the major feel when we hold in our hands. The sound quality and volume is also higher then the previous models.\nI will recommend to buy iphone 11 instead of pro models , there is nothing much difference as this model contains everything which fulfill our needs.\n\nOnly one thing that I dislike abo...\nREAD MORE',

'Upgraded from iphone 6 to 11 best phone for iphone users battery is much better than other iphones camera is awesome love to use it.camera is so clear in night.',

"It's very high performances devise i am like the service of flipkart delivery very fast and packing very nice perfect phone",

'Well you all know the specifications . One of a kind. Best iPhone till date. Many enhancements to the camera app with many options. Love the glass body with matte finish in the lens area on the back. Lovely colours to choose from. Best battery in an iPhone till date, enough to last more than a day in normal usage. I tested my iPhone 11 battery and lasted for than 24 hours after full charge still with 30% battery charge left. Watched movies for some time. Normal usage on calls, browsing, musi...\nREAD MORE',

'The built quality is not very premium.\nThe battery back is great .\n\nThe LCD panel is not so sharp but the brightness level is very High .\n\nCamera is super duper awesome.\n\nThe red colour which people think is bright is actually very soothing and excellent colour to choose from .\n\nThe A13 Bionic chip is really a flagship processor and can beat any phone which even has 12 gb ram .\n\nCamera module is very great and looks very stylish.',

'This will help you more. See if you are planning to buy iPhone 11. I will say. Yes. But there are some plans I just want to disclose before you buy. 1) If you are an existing iPhone X/XS/XS Max/ XR user, better you guys do not think it to buy. You guys have more or less better gadget. 2) If you are an android user and planning to buy premium phone. I will suggest them to please buy iPhone instead of buying an Android. I bet you will never go back to android after using IOS. Now I want to shar...\nREAD MORE',

'Amazing camera and feel super machine I am not describe my feeling but this is amazing Phone I am so lucky I have this',

'Really good actually this is my first apple product am using its really awesome performance wise excellent. Am really happy with this iphonell',

'it is very good at performance. Camera is best like before and very smooth response even in water. Don't buy 12 mini buy iPhone 11 , it is far better than 12 mini believe me ! Have a nice day \uf8ff ☺']

```

review_4=pd.DataFrame()
review_4['Ratings']=brand_Ratings
review_4['Rating_tags']=tags
review_4['Rating_Description']=review_description
review_4

```

```

    Ratings      Rating_tags \
0         5      Brilliant
1         5    Simply awesome
2         5  Best in the market!
3         5    Perfect product!
4         5      Fabulous!
5         5    Worth every penny
6         5    Great product
7         4    Good choice
8         5  Highly recommended
9         5    Worth every penny

```

```

                                Rating_Description
0  The Best Phone for the Money\n\nThe iPhone 11 ...
1  Really satisfied with the Product I received.....
2  Great iPhone very snappy experience as apple k...
3  Amazing phone with great cameras and better ba...
4  This is my first iOS phone. I am very happy wi...
5  Previously I was using one plus 3t it was a gr...
6  Amazing Powerful and Durable Gadget.\n\nI'm am...
7  So far it's been an AMAZING experience coming ...
8  What a camera .....just awesome ..you can feel...
9  ill is worthy to buy, too much happy with the ...

```

```

next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div/div/div[2]/div[13]/div/div/nav/a[6]")
next_pg.click()

```

##Extracting Rating

```

brand_Rating_5=driver.find_elements_by_xpath("//div[@class='_3LWZLK_1BLPMq']")
len(brand_Rating_5)

```

9

brand_Rating_5

```

[<selenium.webdriver.remote.webelement.WebElement
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 <selenium.webdriver.remote.webelement.WebElement
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```

```

4feb-a75f-82899e078e0a")>,
  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="54f8a37c-eeb4-
4c9c-9e36-7ad30309a16e")>]

```

```

brand_Ratings_5=[]
for i in brand_Rating_5:
    brand_Ratings_5.append(i.text)
len(brand_Ratings_5)
brand_Ratings_5

['5', '5', '5', '5', '5', '5', '5', '5', '4']

```

##Extracting rating tags

```

brand_Rating_tags_5=driver.find_elements_by_xpath("//p[@class='_2-
N8zT']")
len(brand_Rating_tags_5)

```

10

brand_Rating_tags_5

```

[<selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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```

```

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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="88e140a2-cee3-
4d80-81a4-93361f54ad05">]

```

```

tags_5=[]
for i in brand_Rating_tags_5:
    tags_5.append(i.text)
len(tags_5)
tags_5

```

```

['Very poor',
 'Perfect product!',
 'Classy product',
 'Fabulous!',
 'Must buy!',
 'Fabulous!',
 'Mind-blowing purchase',
 'Wonderful',
 'Must buy!',
 'Very Good']

```

extracting review description

```

brand_review_descp_5=driver.find_elements_by_xpath("//div[@class='t-
ZTKy']")
len(brand_review_descp_5)

```

```

10

```

```

brand_review_descp_5

```

```

[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="8df360d4-67a9-
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```

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  <selenium.webdriver.remote.webelement.WebElement
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4697-a8ff-49109a74ccc2">]

```

```

review_description_5 =[]
for i in brand_review_descp_5:
    review_description_5.append(i.text)
len(review_description_5)
review_description_5

```

['Reviewing again after 5 months. At the beginning the battery and performance was good but it degraded soon. Also I was facing heating issues. The mobile will heat up like a stove sometimes. You cannot even play Pubg even in low settings properly, performance is not a problem but heating is. Also if you play that game for 10 mins the brightness will be automatically down due to over heating even when the auto brightness is set to off. This will not be solved even if u manually increase the bri...\nREAD MORE',

'In love with this iphone great performance,camera ,battery everything. Go for it have a uncompareble battery backup, no doubts in iPhone camera here You can see the picture which is shot on my iPhone In love with this iphone great performance,camera ,battery everything. Go for it have a uncompareble battery backup, no doubts in iPhone camera here You can see the picture which is shot on my iPhone In love with this iphone great performance,camera ,battery everything. Go for it have a uncompare...\nREAD MORE',

'We are on apple ecosystem for almost eight years now with couple of iPads and iPhones, including Xr.\n\nBought iPhone 11 as a gift to my daughter who loves it. We chose for a purple coloured one. Believe me it is gorgeous and towards the lighter shade. Dazzling and brilliant!\n\nThe phone is great and does excellent RAM management like any other Apple device.\n\nThe screen, though a LCD and lesser ppi as compared

to other flagship phones of competitor brands, is a delight to watch with perfect re...\nREAD MORE',

'Everything is perfect pictures come out so clearly and at first I wasn't sure when I got it then when I started to use it and get the hang of it it was amazing!! I can't wait to see what the next future phones will be like. The screen display on this bad boy are unbelievable they are so clear and never fail me. The performance is super cool there is a lot of cool features as well I like this phone because I feel that it is easy to use and one of my favorite things about this phone is the Face...\nREAD MORE',

'Best Apple iPhone that i have bought at a very reasonable price, camera quality is next level just awesome n of superior quality android phones not even close(RIP) to that and also battery is really good but packaging by Flipkart of iPhone was very poor of such a expensive product, firstly im bit worried about the quality of product if i purchased it through online how was the product but i think now this was mine best decision to bought it through Flipkart online because i got genuine Apple...\nREAD MORE',

"I can say I'm damn impressed with iPhone 11. As they says iPhone 11 have the toughest glass ever in the smartphone which you'll find on the front and back and it's totally smooth. The fit and finish is full apple quality - there's no sense that any cheaping out has happened in the construction. Without saying it's camera features this review won't complete. The iPhone 11 has a dual camera system, consisting of a wide angle len's that's pretty much same as found on the iPhone XR last year, but...\nREAD MORE",

'Best Quality Product OF iPhone Series , Sound Quality & Camera quality is very awesome, Battery Life is very Sufficient for 24 hr Backup With Full Internet Access , I love this this Product too much , It is very fast & making me Very fast in all my daily Routine\n\nHighlights;\n\n1.Camera: 5 STAR\n2.Video Recording: 5 star\n3.Night mODE sHOOTING & Camera:4 star\n4. Audio Quality: Awesome\n5. Battery : 5 Star\n6. Touch:5 Star\n7. Processor: Very Fast\n\nThe M...\nREAD MORE',

'Superfast delivery by Flipkart. Thanks.\n\n\n1. iPhone 11 is a pretty solid phone for the money you are paying.\n2. All the bad reviews about the display is confusing. It's not that bad.\n3. I switched from a Oneplus 7t. I have no complaints about the display quality of iPhone. Yes, it's not OLED, so, we are missing on the deep blacks. But that's it. It is a very colour accurate display. Gets adequately bright and I could not find any pixelation.\n4. Performance is one of the best, if not best, in ...\nREAD MORE',

'I rate this product 5* as it has got amazing user experience with the best performing A13 bionic processor. The screen responds and graphics rendering is top notch. With casual gaming and internet browsing, the battery lasts for approx. 1 day. Camera is very good. You will fall in love with the portrait mode. You can call me a loyal Apple customer or whatever but I won't stop praising the products and overall experience. That user experience matters and is worth every penny you pay.\n\nBelow ar...\nREAD MORE',

```
'impressive super phone and best in class camera ,sound and face
unlock is super fast just see and phone is unlock and fast in daily
apps use']
```

```
review_5=pd.DataFrame()
review_5['Ratings']=brand_Ratings
review_5['Rating_tags']=tags
review_5['Rating_Description']=review_description
review_5
```

	Ratings	Rating_tags \
0	5	Brilliant
1	5	Simply awesome
2	5	Best in the market!
3	5	Perfect product!
4	5	Fabulous!
5	5	Worth every penny
6	5	Great product
7	4	Good choice
8	5	Highly recommended
9	5	Worth every penny

	Rating_Description
0	The Best Phone for the Money\n\nThe iPhone 11 ...
1	Really satisfied with the Product I received.....
2	Great iPhone very snappy experience as apple k...
3	Amazing phone with great cameras and better ba...
4	This is my first iOS phone. I am very happy wi...
5	Previously I was using one plus 3t it was a gr...
6	Amazing Powerful and Durable Gadget.\n\nI'm am...
7	So far it's been an AMAZING experience coming ...
8	What a camerajust awesome ..you can feel...
9	ill is worthy to buy, too much happy with the ...

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/
div/div/div[2]/div[13]/div/div/nav/a[7]")
next_pg.click()
```

```
##Extracting Rating
```

```
brand_Rating_6=driver.find_elements_by_xpath("//div[@class='_3LWZlK
_1BLPMq']")
len(brand_Rating_6)
```

```
10
```

```
brand_Rating_6
```

```
[<selenium.webdriver.remote.webelement.WebElement
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```



```

4dad-992e-fa47c87ab8f3">,
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4563-b57d-8189434f53d2")>]

```

```

brand_Ratings_6=[]
for i in brand_Rating_6:
    brand_Ratings_6.append(i.text)
len(brand_Ratings_6)
brand_Ratings_6

['5', '5', '5', '5', '4', '5', '5', '5', '5', '5']

```

##Extracting rating tags

```

brand_Rating_tags_6=driver.find_elements_by_xpath("//p[@class='_2-
N8zT']")
len(brand_Rating_tags_6)

```

```
10
```

```
brand_Rating_tags_6
```

```

[<selenium.webdriver.remote.webelement.WebElement
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```

```

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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="35ecde29-66f0-
4330-ab48-51c7571e02a8">]

```

```

tags_6=[]
for i in brand_Rating_tags_6:
    tags_6.append(i.text)
len(tags_6)
tags_6

```

```

['Wonderful',
 'Classy product',
 'Just wow!',
 'Awesome',
 'Pretty good',
 'Terrific purchase',
 'Awesome',
 'Classy product',
 'Brilliant',
 'Terrific']

```

extracting review description

```

brand_review_descp_6=driver.find_elements_by_xpath("//div[@class='t-
ZTKy']")
len(brand_review_descp_6)

```

```
10
```

```
brand_review_descp_6
```

```

[<selenium.webdriver.remote.webelement.WebElement
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```

```

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4423-be3c-2d6397800b4c")>]

```

```

review_description_6 =[]
for i in brand_review_descp_6:
    review_description_6.append(i.text)
len(review_description_6)
review_description_6

```

```

['Super and marvellous phone look very cute and nice sound. I love
this phone i think white is good colur.Excellent camer 5*😊😄♥♥',
'Well while switching from android to iOS the first thing you need to
be careful about is that you will loose all your whatsapp chat backups
as both are different operating systems. Camera clarity is awesome and
though being an lcd screen clarity and resolution is good. Battery
backup is also good unlike previous gen iPhone. So far the experience
is good will Padre after a few months of usage.\n\nP.S the black is
more of a dark grey shade and not jet black',
'Best in class. Battery backup is good especially when you play games
like Pubg COD. But it is sort of heavy when you hold in hands.
Portrait mode is best to click pictures. Stage light effect is
awesome. Try to click photos outside in nature because photos inside
home or room will not give you the quality in any phone even in
DSLR.',
'Very excited to have this phone. This phone has the real power

```

unlike the android phones having SD 855 . The battery life is very good and the camera quality is excellent as compared to redmi and other phones except google pixel. I M enjoying every single bit of it. Would recommend only if you have the budget.',

'I was using Iphone 6s and also OnePlus 6t. Both mobiles were perfectly alright in Photos, gaming, and smooth interface . My 6s mobile getting battery issue. thought upgrade to 11. Really like this mobile of its Internal storage (compare to 6s) , camera and its touch feeling. Its a worth buying mobile for me.',

'Its Very awesome product working and good camera quality and all about best product and also flipkart is very great deal and offer nice price',

'I am using this phone for 5 days and its one of the best camera out there ♥ the screen is not oled and i am coming from iphone xs so its little bit not up to the mark i would say\nBut overall value for money☺the battery back up is far better than my iphone xs and its worth in my apple ecosystem♥if u are an apple User and have the ecosystem then go for it♥though i will be getting the new iphone but its pretty good',

'Best and amazing product.....phone looks so premium.... battery is also good as expected Wide angle camera is so addictive ...if you are a IOS lover....then this phone will be the best choice for you all!!☐☐',

'Excellent camera and display touching very nice and smooth very improvement against iPhone XR and new processor is very fast',

"I got this beast today. And I must say the picture quality of its camera is awesome. Both the cameras works fine.\n\nAs for as the processing is concerned, it runs without any lag. You can play and do whatever you want without a glitch.\n\nThe battery runs for a day with medium and high workload.\n\nThe display is good and the speakers are working fine.\n\nThe earphones doesn't have any base and you can use it for calling mostly.\n\nThe charging time is approximately for 90 minutes for full charging...\nREAD MORE"]

```
review_6=pd.DataFrame()
review_6['Ratings']=brand_Ratings
review_6['Rating_tags']=tags
review_6['Rating_Description']=review_description
review_6
```

	Ratings	Rating_tags	\
0	5	Brilliant	
1	5	Simply awesome	
2	5	Best in the market!	
3	5	Perfect product!	
4	5	Fabulous!	
5	5	Worth every penny	
6	5	Great product	
7	4	Good choice	
8	5	Highly recommended	
9	5	Worth every penny	

	Rating	Description
0	The Best Phone for the Money	\n\nThe iPhone 11 ...
1	Really satisfied with the Product I received
2	Great iPhone very snappy experience as apple k...	
3	Amazing phone with great cameras and better ba...	
4	This is my first iOS phone. I am very happy wi...	
5	Previously I was using one plus 3t it was a gr...	
6	Amazing Powerful and Durable Gadget.	\n\nI'm am...
7	So far it's been an AMAZING experience coming ...	
8	What a camera	just awesome ..you can feel...
9	ill is worthy to buy, too much happy with the ...	

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div/div/div[2]/div[13]/div/div/nav/a[7]")
next_pg.click()
```

##Extracting Rating

```
brand_Rating_7=driver.find_elements_by_xpath("//div[@class='_3LWZlK_1BLPMq']")
len(brand_Rating_7)
```

9

brand_Rating_7

```
[<selenium.webdriver.remote.webelement.WebElement
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```
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="82f3eb9f-193e-4589-9a72-66c83b0a595a")>]
```

```
brand_Ratings_7=[]  
for i in brand_Rating_7:  
    brand_Ratings_7.append(i.text)  
len(brand_Ratings_7)  
brand_Ratings_7
```

```
['5', '5', '5', '5', '5', '5', '5', '4', '5']
```

```
##Extracting rating tags
```

```
brand_Rating_tags_7=driver.find_elements_by_xpath("//p[@class='_2-N8zT']")  
len(brand_Rating_tags_7)
```

```
10
```

```
brand_Rating_tags_7
```

```
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(session="cda0051eaaf40eb966fab3b55b4de9bb", element="8d06a809-e590-4a89-9c57-9f0315f4eb27")>]
```

```
tags_7=[]
for i in brand_Rating_tags_7:
    tags_7.append(i.text)
len(tags_7)
tags_7
```

```
['Perfect product!',
 'Awesome',
 'Perfect product!',
 'Highly recommended',
 'Very poor',
 'Fabulous!',
 'Excellent',
 'Must buy!',
 'Value-for-money',
 'Best in the market!']
```

extracting review description

```
brand_review_descp_7=driver.find_elements_by_xpath("//div[@class='t-
ZTKy']")
len(brand_review_descp_7)
```

```
10
```

```
brand_review_descp_7
```

```
[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="8e8e29fd-6e14-
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4870-86d7-a635014a79b6")>,
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4b52-ab19-e8182cf9edde")>,
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4983-b82e-0327f8e95569")>,
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4bd6-812f-86b158f02c5b")>,
 <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="f09f8cb9-9b90-
4865-9303-7569f08977ab")>,
 <selenium.webdriver.remote.webelement.WebElement
```



```
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="38acad33-e942-4db5-b0af-39b5173bcfd3")>,  
<selenium.webdriver.remote.webelement.WebElement  
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="a9d61bda-d458-4724-9590-b901040b6777")>]
```

```
review_description_7=[]  
for i in brand_review_descp_7:  
    review_description_7.append(i.text)  
len(review_description_7)  
review_description_7
```

['Awesome purchase. Amazing phone with good battery backup. It's a top notch device. White colour looks amazing. Phone has a few extra feature than iPhone XR. Overall, this is value for money',

'Always love the apple products, upgraded from old iPhone 6S plus to this after having my first baby. I just love to click baby's photos with it. Overall I just love this phone. Battery back up is okay, sound quality is good. Haven't tested yet waterproof yet. Only one thing I hate is apple could have given charger & headphones in box.',

'Value for money\n5 star rating\nExcellent camera\nBattery backup full day in single charge.\n\nTougher and water resistant design, glossy back.\n\nThe screen has excellent brightness and contrast.\n\nApple A13 Bionic is the fastest smartphone chip on the planet.\n\nExcellent battery life, fast charging support.\n\nStereo speakers with great quality.',

'Thanks Flipkart For this amazing deal! I had a dream of owning a iphone since i had known about.\n\nIm very happy with my purchase & it is totally worth it.\n\nAmazing experience all over !!\n\n\nAnyone who's thinking of buying it in 2021, i would simply say go for it without any second thoughts ♥',

'Please DONT buy from here,\n\n\nI purchased Apple iPhone 11. with an exchange of iPhone 7, the exchange did not go well, iPhone 7 had a small scratch out side screen which i could never identify till date, but the FLIPKART person could, so he reduced 50% from exchange rate. I decided not to trade in, but paid money.\n\n\niPhone 11 Detail Below\n\n-----\n\nIt came with no charging, then i have put for charging, it took lot of time for charging, the phone also showe...\n\nREAD MORE',

'awesome phone to have. it has got many smart features apart from mind blowing looks, camera, display, battery and sound. have fallen in love with this phone. must buy phone if you have got enough money. thanks to flipkart and apple of course..',

'Its a fabulous mobile look awesome performance unbeaten camera like dslr battery good i think this is a beast of mobile',

'Dear friends... I want to share my experience with you about this amazing I phone 11....this is my first iPhone and special things about this mobile is it has great camera, battery backup and awesome display.... I mean everything is perfect.loved it ☺☺☺',

"Just got this iphone 11\n\nAnd it is most powerful mobile phone I have used ever\n\n\nSo,go for it if you want a phone with best specification

like camera,battery backup,display, A13 bionic chip\n\nThat's my review about this phone but yours can be differ from me....",
 "The best all rounder iphone. Flipkart is doing a great job. They're delivery services are blazing fast. I got delivery on the same day. Genuine Apple Product. Working great. Talking about review There's no need of review for iphones. They're simply the best."]

```
review_7=pd.DataFrame()
review_7['Ratings']=brand_Ratings
review_7['Rating_tags']=tags
review_7['Rating_Description']=review_description
review_7
```

	Ratings	Rating_tags \	Rating_Description
0	5	Brilliant	The Best Phone for the Money\n\nThe iPhone 11 ...
1	5	Simply awesome	Really satisfied with the Product I received.....
2	5	Best in the market!	Great iPhone very snappy experience as apple k...
3	5	Perfect product!	Amazing phone with great cameras and better ba...
4	5	Fabulous!	This is my first iOS phone. I am very happy wi...
5	5	Worth every penny	Previously I was using one plus 3t it was a gr...
6	5	Great product	Amazing Powerful and Durable Gadget.\n\nI'm am...
7	4	Good choice	So far it's been an AMAZING experience coming ...
8	5	Highly recommended	What a camerajust awesome ..you can feel...
9	5	Worth every penny	ill is worthy to buy, too much happy with the ...

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div/div/div[2]/div[13]/div/div/nav/a[7]")
next_pg.click()
```

##Extracting Rating

```
brand_Rating_8=driver.find_elements_by_xpath("//div[@class='_3LWZlK_1BLPMq']")
len(brand_Rating_8)
```

9

brand_Rating_8

```
[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="20e28912-0003-
```

```

47f8-9c75-015186f446d6">,
  <selenium.webdriver.remote.webelement.WebElement
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4c51-9adf-b31ab5a361e1">,
  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="43fadfca-2958-
482b-83c3-dcfd79b40edc">,
  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="7e38ef3b-48a5-
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="0243d306-3b27-
4b2c-8b8c-3d6a886f68df">]>]

```

```

brand_Ratings_8=[]
for i in brand_Rating_8:
    brand_Ratings_8.append(i.text)
len(brand_Ratings_8)
brand_Ratings_8

['5', '5', '4', '5', '5', '5', '4', '5', '5']

```

```

##Extracting rating tags
brand_Rating_tags_8=driver.find_elements_by_xpath("//p[@class='_2-
N8zT']")
len(brand_Rating_tags_8)

```

```
10
```

```

brand_Rating_tags_8

[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="cf30316d-4197-
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  <selenium.webdriver.remote.webelement.WebElement
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4130-9178-935a4a461eaf">,
  <selenium.webdriver.remote.webelement.WebElement
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```

```

4086-a62e-964ac4a5f2dd">,
  <selenium.webdriver.remote.webelement.WebElement
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  <selenium.webdriver.remote.webelement.WebElement
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4554-976c-a60c4caa50e4")>,
  <selenium.webdriver.remote.webelement.WebElement
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4909-a43a-f93e6801e59c")>,
  <selenium.webdriver.remote.webelement.WebElement
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44db-8ce6-60126633ca6c")>,
  <selenium.webdriver.remote.webelement.WebElement
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4586-8da8-f74ab824553e")>,
  <selenium.webdriver.remote.webelement.WebElement
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4ce3-94c4-elca18f49697")>,
  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="00f842c5-0ab6-
4a0c-ba44-3767a688a424")>]

```

```

tags_8=[]
for i in brand_Rating_tags_8:
    tags_8.append(i.text)
len(tags_8)
tags_8

```

```

['Brilliant',
'Terrific purchase',
'Good quality product',
'Best in the market!',
'Perfect product!',
'Awesome',
'Value-for-money',
'Worthless',
'Super!',
'Mind-blowing purchase']

```

extracting review description

```

brand_review_descp_8=driver.find_elements_by_xpath("//div[@class='t-
ZTKy']")
len(brand_review_descp_8)

```

```
10
```

```
brand_review_descp_8
```

```

[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="8235d394-597e-

```

```

496e-8470-17c17e574d92">,
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  <selenium.webdriver.remote.webelement.WebElement
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45d1-9fb5-5b22df517ea1">,
  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="0517ee0b-ff77-
4678-81b0-a08f81378fa5">,
  <selenium.webdriver.remote.webelement.WebElement
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4d2c-9572-5892f83b8e23">,
  <selenium.webdriver.remote.webelement.WebElement
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4529-95d0-fcf9f7941181">,
  <selenium.webdriver.remote.webelement.WebElement
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416f-a71f-37add91161a1">,
  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="d24c2106-4da1-
42f6-b971-72e756d63c54">,
  <selenium.webdriver.remote.webelement.WebElement
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4c74-8497-abf3d5309195">,
  <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="5b6316d6-e6ab-
4807-b20a-321381ab68d2">]>]

```

```

review_description_8 =[]
for i in brand_review_descp_8:
    review_description_8.append(i.text)
len(review_description_8)
review_description_8

```

```

['Amazing phone and on great deal I received with super fast delivery
by Flipkart...',
 'finally an iPhone with very nice battery backup. update from iPhone
7 and happy to have it. camera is not up to the mark in low light but
overall a recommended phone if your budget allows 😊',
 "I'm switching this phone to oppo reno 10x zoom\nIt's really
impressive\nRarely I'm missing smooth display touch response like oppo
reno but\nI really loved it.\nCamera really impressive",
 'Damn this phone is a blast . Upgraded from android to ios and is a
duperb experience. Battery backup is top notch and display also pretty
good',
 'Worth the money' starting first from its performance it beats out
all phones , second the smoothness of camera is awesome, contrast
ratio is much than expected. Price will not matter if u r a quality
person, if not other phones are available with better discount',
 'I dreamt about this day from a long time.... Getting an iPhone with

```

my own money.... Super happy and worth spending every penny',
 "I'm Really happy with the product\nDelivery was fast as well\n..it was a gift for my sister and she loved it so much.",
 "Phone is awesome no doubt. But Camera & Display is not great. Performance is mind blowing.\nBut the phone is heating too much when charging or when you regularly used. It's experience after using 1 week. It's heating extrem when I play PUBG for 30 minutes.\nGo for iPhone 11 pro or 12. Otherwise go for Android phone you will get much better phone in less price.",
 'Did an upgrade from 6s plus to iphone 11.\nAo far the experience is well and good. Felt smoother than 6s plus. The camera quality is superb. Battery backup is descent. Not a heavy user, and gets power more than a day. Go for it if you need an alrounder iphone in a competitve price.',
 'First thanks to Flipkart for this amazing deal and phone is outstanding. I upgraded from iPhone 7 and this is like very big upgrade. But the packaging was very basic I expected a good packaging as they only wrapped one layer of bubble wrap which I don't think is enough to protect this expensive phone. And I recommend this phone and seller as well.\n\nAnd I'm posting this review after using it for 4 days.']

```
review_8=pd.DataFrame()
review_8['Ratings']=brand_Ratings
review_8['Rating_tags']=tags
review_8['Rating_Description']=review_description
review_8
```

	Ratings	Rating_tags \	Rating_Description
0	5	Brilliant	The Best Phone for the Money\n\nThe iPhone 11 ...
1	5	Simply awesome	Really satisfied with the Product I received.....
2	5	Best in the market!	Great iPhone very snappy experience as apple k...
3	5	Perfect product!	Amazing phone with great cameras and better ba...
4	5	Fabulous!	This is my first iOS phone. I am very happy wi...
5	5	Worth every penny	Previously I was using one plus 3t it was a gr...
6	5	Great product	Amazing Powerful and Durable Gadget.\n\nI'm am...
7	4	Good choice	
8	5	Highly recommended	
9	5	Worth every penny	So far it's been an AMAZING experience coming ...

```
8 What a camera .....just awesome ..you can feel...
9 ill is worthy to buy, too much happy with the ...
```

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div/div/div[2]/div[13]/div/div/nav/a[7]")
next_pg.click()
```

```
##Extracting Rating
```

```
brand_Rating_9=driver.find_elements_by_xpath("//div[@class='_3LWZlK_1BLPMq']")
len(brand_Rating_9)
```

```
9
```

```
brand_Rating_9
```

```
[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="eb0d4451-a431-4568-94bc-d2bf94d820db")>,
 <selenium.webdriver.remote.webelement.WebElement
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 <selenium.webdriver.remote.webelement.WebElement
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 <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="a4f3a060-c8ea-4920-9a6b-ac2307015415")>,
 <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="936f69ee-8964-43cf-9db2-8c57240215de")>]
```

```
brand_Ratings_9=[]
```

```
for i in brand_Rating_9:
    brand_Ratings_9.append(i.text)
len(brand_Ratings_9)
brand_Ratings_9
```

```
['5', '5', '5', '5', '5', '5', '5', '5', '5']
```

```
##Extracting rating tags
```

```
brand_Rating_tags_9=driver.find_elements_by_xpath("//p[@class='_2-N8zT']")
```

```
len(brand_Rating_tags_9)
```

```
10
```

```
brand_Rating_tags_9
```

```
[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="ae9df880-ee57-48b1-a3bc-9a9c36a2972e")>,
 <selenium.webdriver.remote.webelement.WebElement
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 <selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="eb8e3254-0824-47f3-97ef-d65ea77cf5b1")>]
```

```
tags_9=[]
```

```
for i in brand_Rating_tags_9:
```

```
    tags_9.append(i.text)
```

```
len(tags_9)
```

```
tags_9
```

```
['Super!',
 'Awesome',
 'Just wow!',
 'Worth every penny',
 'Mind-blowing purchase',
```



```
'Waste of money!',  
'Worth every penny',  
'Excellent',  
'Just wow!',  
'Wonderful']
```

```
#### extracting review description
```

```
brand_review_descp_9=driver.find_elements_by_xpath("//div[@class='t-ZTKy']")
```

```
len(brand_review_descp_9)
```

```
10
```

```
brand_review_descp_9
```

```
review_description_9 =[]  
for i in brand_review_descp_9:  
    review_description_9.append(i.text)  
len(review_description_9)  
review_description_9
```

```
['This is my first ever iPhone.\nAnd I truly don't regret switching to  
IOS from my Android.\n\nIt is easily an alternative to a DSLR camera.\nIf you're obsessed with photos and videos, just don't think twice or  
don't compare to other androids(Samsung S10 lite or OnePlus 8/8T), as  
it's far better from them in every field.\nComparing will only make  
you confused.\n\nI am getting an average Screen on Time of around 10  
hours with 30 percent left. I haven't let my device discharged below  
30 % as it aff...\nREAD MORE',
```

```
'Can't beat the software and hardware integration of apple.\nPerforms like a beast. Great quality camera\n6-7 hours screen on time which is good. Nothing much to complaint about the screen. Good connectivity speeds.\nGreat buy and Flipkart's delivery top notch as usual',
```

```
'Great iphone.\nI am writing this review after 2 months of usage.\nCamera is excellent, especially the nightmode\nDisplay perfect\nBattery backup awesome\nSound quality very good\nOverall Apple gives you a perfect iphone in this range.\nReally in love with iPhone 11',
```

```
'iPhone is delivered on time. Display is great u won't feel that it's a hd panel. Quality is excellent. Sounds is great it has stereo setup. Camera is good. iOS 14.2 comes in the box. U roughly get 113 gb free if u buy 128 gb. This is my second iPhone and i love it. Value for money.',
```

```
'beautiful shining, battery performance is too good.\nonly the draw back is my expectations not meeted front cam but back cam is superb.',
```

```
'Mobile is not getting charge.Mobile cannot be stated',
```

```
'Here is the thing\n\nThe only reason why you should buy this phone is for the camera, iOS, and if you have headaches looking at AMOLED display.\n\nI'm not an avid gamer but watch a lot of movies on smartphone. However, my migraine attacks increased considerably after using AMOLED Smartphone. That's why I made a calculated decision to buy iPhone 11. It has the best LCD display and the blacks, though not
```


as natural as an AMOLED, is better than some of the other smartphones.\n\nAdding to this the ste...\nREAD MORE',

"It was amazing experience for me. Honestly i am using iPhone first time so I don't have that much past experience about that. But after using 7 days this mobile i want to give some honest feedback.\n1- Display 9 out of 10\n2- Camera 9.5 out of 10\n3- Battery 7 out of 10\n4- Performance 9.5 out of 10\n5- Features & Functions 10 out of 10\n6- Outer looks and colour 10 out of 10\nRest i think i will understand after using this for few months.\nI will highly recommend you guys if you have budget then you...\nREAD MORE",

'Not mere a phone , Its more than that for fun and enjoy life. Just grab it. Best luck',

"Ok, so after almost 3 years I am again back into Apple Ecosystem. Switching from Android to iOS has just one disadvantage imo, and that's you can't take your WhatsApp data restored to iOS. Everything starts fresh, pretty sad. I am so glad that I chose iPhone 11 over 12. With 5G nowhere in India for at least an year will have an added advantage to iPhone 11. Spending extra 25k just for A14 chipset and OLED display is not a clever choice. Anyways, a fantastic phone with everything fit perfectly...\nREAD MORE"]

```
review_9=pd.DataFrame()
review_9['Ratings']=brand_Ratings
review_9['Rating_tags']=tags
review_9['Rating_Description']=review_description
review_9
```

	Ratings	Rating_tags	\
0	5	Brilliant	
1	5	Simply awesome	
2	5	Best in the market!	
3	5	Perfect product!	
4	5	Fabulous!	
5	5	Worth every penny	
6	5	Great product	
7	4	Good choice	
8	5	Highly recommended	
9	5	Worth every penny	

	Rating_Description
0	The Best Phone for the Money\n\nThe iPhone 11 ...
1	Really satisfied with the Product I received.....
2	Great iPhone very snappy experience as apple k...
3	Amazing phone with great cameras and better ba...
4	This is my first iOS phone. I am very happy wi...
5	Previously I was using one plus 3t it was a gr...
6	Amazing Powerful and Durable Gadget.\n\nI'm am...
7	So far it's been an AMAZING experience coming ...
8	What a camerajust awesome ..you can feel...
9	ill is worthy to buy, too much happy with the ...

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div/div/div[2]/div[13]/div/div/nav/a[7]")
next_pg.click()
```

##Extracting Rating

```
brand_Rating_10=driver.find_elements_by_xpath("//div[@class='_3LWZlK_1BLPMq']")
len(brand_Rating_10)
```

```
10
```

```
brand_Rating_10
```

```
[<selenium.webdriver.remote.webelement.WebElement
(session="cda0051eaaf40eb966fab3b55b4de9bb", element="d5cdb69c-671c-4fb1-b917-3fd611f2c860")>,
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```

```
brand_Ratings_10=[]
```

```
for i in brand_Rating_10:
    brand_Ratings_10.append(i.text)
```

```
len(brand_Ratings_10)
```

```
brand_Ratings_10
```

```
['4', '5', '5', '5', '5', '5', '4', '5', '5', '5']
```

```
##Extracting rating tags
```

```
brand_Rating_tags_10=driver.find_elements_by_xpath("//p[@class='_2-N8zT']")
```

```
len(brand_Rating_tags_10)
```

```
10
```

```
brand_Rating_tags_10
```

```
[<selenium.webdriver.remote.webelement.WebElement
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(session="cda0051eaaf40eb966fab3b55b4de9bb", element="a4dece43-9840-4124-95c1-fd526cc21445")>]
```

```
tags_10=[]
```

```
for i in brand_Rating_tags_10:
```

```
    tags_10.append(i.text)
```

```
len(tags_10)
```

```
tags_10
```

```
['Nice product',
 'Mind-blowing purchase',
 'Classy product',
 'Terrific',
 'Excellent',
```

```
'Brilliant',  
'Pretty good',  
'Excellent',  
'Worth every penny',  
'Mind-blowing purchase']
```

```
#### extracting review description
```

```
brand_review_descp_10=driver.find_elements_by_xpath("//div[@class='t-ZTKy']")
```

```
len(brand_review_descp_10)
```

```
10
```

```
brand_review_descp_10
```

```
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(session="cda0051eaaf40eb966fab3b55b4de9bb", element="937b5ffc-e1a0-  
4744-bb39-663443d62062")>]
```

```
review_description_10 =[]
```

```
for i in brand_review_descp_10:  
    review_description_10.append(i.text)
```

```
len(review_description_10)
```

```
review_description_10
```

["If you are looking for a premium phone under 55k, this is the one for you. Got the iPhone 11 during the Republic day sale. Performance is top notch in this price range. Camera's do a perfect job in taking good quality photos and videos. Battery backup too is satisfactory. Writing this review after using for a week. Any further observations would be updated.",

'awesome Phone Smooth Touch Too good Sexyy looks one word Awesome',
'Gifted my man on his 30th birthday ☐ He loves it.. Him happy so i am more than happy 😊😍☐',

'I bought iPhone 11 On March 2021, And I am Writing this review after using the phone for 4 Months. I would Say Everything is fine, Top Performance, Nice Camera as Anyone would Expect from any series of iPhone but when the Question comes to Battery it is complicated. The Battery is fully optimised and it comes 3110 mAh capacity but the problem is with the charger. Honestly Apple Removed charger from in Box items in the name of Environment and they are also forcing us to buy any 20W PD 3rd part...\nREAD MORE',

"Just go for it.\nThis phone is really amazing. I ordered it for my wife and we click photos on this thing which are better than dslr. I own OnePlus 6t but it's camera sucks. iPhone is really amazing when it comes to camera. It's worth spending 50k on this. Cons- only display is lcd. While using u don't feel it but if u compare with other phone then u can see difference quite easily.\nChanging from Android to iphone is bit difficult coz most of things u don't know but I liked it. Some of the a...\nREAD MORE",

'A wort full value for money decision it's . Simply go for it in 2021 its still a good decision . Awesome camera , Super smothered performance, Heck of build quality. And Most important it protects your privacy.',

"I've used this phone for over a month now and here are my takeaways.\nI would like to first talk about the best things about this phone and then the cons of it.\n\nPros:\nThis phone is a performance beast. It handles large games and applications effortlessly and you won't find any stutters or lags while playing graphic intensive games like pubg, cod , mortal kombat and asphalt.\n\nThis phone has only 4gb ram and yet the ram management is amazing, it can keep 3 heavy games in memory without reload...\nREAD MORE",

'A perfect phone and a good battery super camera and the sound is dynamic overall the phone is perfect for upgrading from lower iPhone model to iPhone 11',

'Undoubtedly Iphone 11 is the most successful model till now and its performance is extraordinary and the security features are very impressive, display is more vibrant sound quality Camera Quality 5*****, but Iphone should add accessories too and act like scrooge.',

'Excellent camera ☐ And Display touching very Nice And Smooth and very improvement against\nI phone 11 and new processor is very fast']

```
review_10=pd.DataFrame()  
review_10['Ratings']=brand_Ratings  
review_10['Rating_tags']=tags
```

```
review_10['Rating_Description']=review_description
review_10
```

```

Ratings      Rating_tags \
0          5      Brilliant
1          5      Simply awesome
2          5      Best in the market!
3          5      Perfect product!
4          5      Fabulous!
5          5      Worth every penny
6          5      Great product
7          4      Good choice
8          5      Highly recommended
9          5      Worth every penny

```

```

Rating_Description
0  The Best Phone for the Money\n\nThe iPhone 11 ...
1  Really satisfied with the Product I received.....
2  Great iPhone very snappy experience as apple k...
3  Amazing phone with great cameras and better ba...
4  This is my first iOS phone. I am very happy wi...
5  Previously I was using one plus 3t it was a gr...
6  Amazing Powerful and Durable Gadget.\n\nI'm am...
7  So far it's been an AMAZING experience coming ...
8  What a camera .....just awesome ..you can feel...
9  ill is worthy to buy, too much happy with the ...

```

```
df_Review =
pd.concat([review_1,review_2,review_3,review_4,review_5,review_6,review_7,review_8,review_9,review_10,review_10])
```

```
df_Review[0:100]
```

```

Ratings      Rating_tags \
0          5      Brilliant
1          5      Simply awesome
2          5      Best in the market!
3          5      Perfect product!
4          5      Fabulous!
..      ...      ...
5          5      Worth every penny
6          5      Great product
7          4      Good choice
8          5      Highly recommended
9          5      Worth every penny

```

```

Rating_Description
0  The Best Phone for the Money\n\nThe iPhone 11 ...
1  Really satisfied with the Product I received.....

```

```

2   Great iPhone very snappy experience as apple k...
3   Amazing phone with great cameras and better ba...
4   This is my first iOS phone. I am very happy wi...
..
5   Previously I was using one plus 3t it was a gr...
6   Amazing Powerful and Durable Gadget.\n\nI'm am...
7   So far it's been an AMAZING experience coming ...
8   What a camera .....just awesome ..you can feel...
9   ill is worthy to buy, too much happy with the ...

```

[100 rows x 3 columns]

####6

```

import selenium
from selenium import webdriver
import pandas as pd
import warnings
warnings.filterwarnings('ignore')

driver=webdriver.Chrome(r"C:/Users/Lenovo/Downloads/
chromedriver_win32/chromedriver.exe")

url = "https://www.flipkart.com/"
driver.get(url)

search_prod=driver.find_element_by_class_name("_3704LK")
search_prod

<selenium.webdriver.remote.webelement.WebElement
(session="73ba1df09adbe58ada8d4ca8bd7738e5", element="d6e935c3-ebf7-
40b4-8813-6767b514cb06")>

search_prod.send_keys("sneakers")

search_btn=driver.find_element_by_xpath("//button[@class='L0Z3Pu']")
search_btn.click()

#### extracting brand name
brand_name=driver.find_elements_by_xpath("//div[@class='_2WkVRV']")
len(brand_name)

40

brand_name

```

```

[<selenium.webdriver.remote.webelement.WebElement
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```



```
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```

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4571-a7ae-0d32beedda55")>]

```

```

brand=[]
for i in brand_name:
    brand.append(i.text)
len(brand)
brand

```

```

['Roadster',
'Smoky',
'URBANBOX',
'Chevit',
'KWIK FIT',
'kardam&sons',
'corsac',
'Smoky',
'Chevit',
'BRUTON',
'ASTEROID',
'Numenzo',
'Layasa',
'Shoes Bank',
'Labbin',
'RapidBox',
'Chevit',
'luxury fashion',
'World Wear Footwear',
'Bacan',
'Stefano Rads',
'ASTEROID',
'SCATCHITE',
'Navtrend',
'CLYMB',
'Chevit',
'luxury fashion',
'Bacan',
'D-SNEAKERZ',
'Magnolia',
'BRUTON',

```

```
'Nilatin',  
'Zsyto',  
'World Wear Footwear',  
'BRUTON',  
'Numenzo',  
'Chevit',  
'Magnolia',  
'BIRDE',  
'Bacan']
```

extracting product description

```
brand_descp=driver.find_elements_by_xpath("//a[@class='IRpwTa']")  
len(brand_descp)
```

33

brand_descp

```
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```

```

descp=[]
for i in brand_descp:
    descp.append(i.text)
len(descp)
descp

```

```

['Men Blue Solid Sneakers Sneakers For Men',
'Trendy Sneakers For Men',
'Super Stylish & Trendy Combo Pack of 02 Pairs Sneakers ...',
'Kwik FIT casual sneaker shoes and partywear shoes Casua...',
'casual sneaker shoes for men luxury fashion casual snea...',
'STYLISH MENS BLACK SNEAKER Sneakers For Men',
'13 Sneakers For Men',
'516 Trendy Star Perfect Sneakers For Men',
'Modern Trendy Sneakers Shoes Sneakers For Men',
'Original Luxury Branded Fashionable Men's Casual Walkin...',
'Sneakers For Men',
'Sneakers For Men',
'White Sneaker For Men's/Boy's Sneakers For Men',
'Sneakers For Men',
'Perfect & Affordable Combo Pack of 02 Pairs Sneakers Ou...',
'Luxury Fashionable casual sneaker shoes Sneakers For Me...',
'5013-Latest Collection Stylish & Trendy of casuals Snea...',
'Sneakers For Men',
'Original Luxury Branded Fashionable Men's Casual Walkin...',
'Sneakers Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'Casual , Partywear Sneakers Shoes For Men's And Boys Wh...',
'Sneakers For Men',
'Latatest Sneakers Shoe Sneakers For Men',
'Sneakers For Men',
'5011-Latest Collection Stylish & Trendy Casual Sneakers...',

```

```
'Sneaker Sneakers For Men',  
'Sneakers For Men',  
'Sneakers For Men',  
'Sports Running Shoes Sneakers For Men',  
'Sneakers For Men']
```

extracting product price

```
brand_price=driver.find_elements_by_xpath("//div[@class='_30jeq3']")  
len(brand_price)
```

```
40
```

```
brand_price
```

```
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```

```

price=[]
for i in brand_price:
    price.append(i.text)
len(price)
price

```

```

['₹1,139',
 '₹499',
 '₹197',
 '₹469',
 '₹347',
 '₹349',
 '₹449',
 '₹499',
 '₹186',
 '₹209',

```



```
'₹424',  
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'₹399',  
'₹299',  
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'₹590',  
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'₹343',  
'₹159',  
'₹449',  
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'₹348',  
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'₹186',  
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'₹249',  
'₹449',  
'₹298',  
'₹159',  
'₹249',  
'₹399',  
'₹249',  
'₹374',  
'₹301',  
'₹449']
```

```
#### extracting product discount
```

```
brand_disc=driver.find_elements_by_xpath("//div[@class='_3Ay6Sb']")  
len(brand_disc)
```

```
40
```

```
brand_disc
```

```
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```

```
discount=[]  
for i in brand_disc:  
    discount.append(i.text)  
len(discount)  
discount
```

```
['59% off',  
'58% off',  
'80% off',  
'70% off',  
'82% off',  
'73% off',  
'70% off',  
'58% off',  
'76% off',  
'83% off',  
'78% off',  
'70% off',  
'60% off',  
'70% off',  
'57% off',  
'40% off',  
'78% off',  
'73% off',  
'68% off',  
'55% off',  
'72% off',  
'55% off',  
'65% off',  
'81% off',  
'62% off',  
'76% off',  
'82% off',  
'55% off',  
'62% off',  
'62% off',  
'80% off',  
'77% off',  
'77% off',  
'68% off',  
'80% off',
```

```
'60% off',
'68% off',
'62% off',
'69% off',
'55% off']
```

```
sneakers_1=pd.DataFrame()
sneakers_1['Brand_name']=brand[0:33]
sneakers_1['Brand_Description']=descp
sneakers_1['Brand_Price']=price[0:33]
sneakers_1['Brand_Discount']=discount[0:33]
sneakers_1
```

	Brand_name	Brand_Description \
0	Roadster	Men Blue Solid Sneakers Sneakers For
1	Smoky	Trendy Sneakers For
2	URBANBOX	Super Stylish & Trendy Combo Pack of 02 Pairs
3	Chevit	Kwik FIT casual sneaker shoes and partywear
4	KWIK FIT	casual sneaker shoes for men luxury fashion
5	kardam&sons	STYLISH MENS BLACK SNEAKER Sneakers For
6	corsac	13 Sneakers For
7	Smoky	516 Trendy Star Perfect Sneakers For
8	Chevit	Modern Trendy Sneakers Shoes Sneakers For
9	BRUTON	Original Luxury Branded Fashionable Men's
10	ASTEROID	Sneakers For
11	Numenzo	Sneakers For
12	Layasa	White Sneaker For Men's/Boy's Sneakers For
13	Shoes Bank	Sneakers For
14	Labbin	Perfect & Affordable Combo Pack of 02 Pairs
15	RapidBox	Luxury Fashionable casual sneaker shoes
16	Chevit	5013-Latest Collection Stylish & Trendy of
17	luxury fashion	Sneakers For

18	World Wear Footwear	Original Luxury Branded Fashionable Men's	
	Casu...		
19	Bacan	Sneakers Sneakers For	
Men			
20	Stefano Rads	Sneakers For	
Men			
21	ASTEROID	Sneakers For	
Men			
22	SCATCHITE	Sneakers For	
Men			
23	Navtrend	Casual , Partywear Sneakers Shoes For Men's	
An...			
24	CLYMB	Sneakers For	
Men			
25	Chevit	Lattest Sneakers Shoe Sneakers For	
Men			
26	luxury fashion	Sneakers For	
Men			
27	Bacan	5011-Latest Collection Stylish & Trendy	
	Casual...		
28	D-SNEAKERZ	Sneaker Sneakers For	
Men			
29	Magnolia	Sneakers For	
Men			
30	BRUTON	Sneakers For	
Men			
31	Nilatin	Sports Running Shoes Sneakers For	
Men			
32	Zsyto	Sneakers For	
Men			

	Brand_Price	Brand_Discount
0	₹1,139	59% off
1	₹499	58% off
2	₹197	80% off
3	₹469	70% off
4	₹347	82% off
5	₹349	73% off
6	₹449	70% off
7	₹499	58% off
8	₹186	76% off
9	₹209	83% off
10	₹424	78% off
11	₹379	70% off
12	₹399	60% off
13	₹299	70% off
14	₹424	57% off
15	₹590	40% off
16	₹389	78% off
17	₹343	73% off

18	₹159	68% off
19	₹449	55% off
20	₹192	72% off
21	₹449	55% off
22	₹348	65% off
23	₹549	81% off
24	₹566	62% off
25	₹186	76% off
26	₹349	82% off
27	₹449	55% off
28	₹249	62% off
29	₹374	62% off
30	₹249	80% off
31	₹449	77% off
32	₹298	77% off

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div[12]/div/div/nav/a[2]")
next_pg.click()
```

##extracting brand name

```
brand_name=driver.find_elements_by_xpath("//div[@class='_2WkVRV']")
len(brand_name)
```

40

brand_name

```
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```

```
brand=[]
for i in brand_name:
```

```
        brand.append(i.text)
len(brand)
brand
```

```
['BIRDE',
 'Chevit',
 'India hub',
 'EMPTILE',
 'RED TAPE',
 'India hub',
 'Kraasa',
 'Robbie jones',
 'World Wear Footwear',
 'Elevarse',
 'Kraasa',
 'Strollin',
 'corsac',
 'Rzisbo',
 'aadi',
 'Robbie jones',
 'CLYMB',
 'World Wear Footwear',
 'World Wear Footwear',
 'Nilatin',
 'Airland',
 'Hida',
 'TR',
 'RapidBox',
 'Xtoon',
 'bluemaker',
 'Vellinto',
 'Numenzo',
 'Echor',
 'Gentax',
 'NIKE',
 'Navtrend',
 'Echor',
 'BRUTON',
 'PUMA',
 'Numenzo',
 'Chevit',
 'D-SNEAKERZ',
 'LuvShus',
 'BS FASHION']
```

```
#### extracting product description
```

```
brand_descp=driver.find_elements_by_xpath("//a[@class='IRpwTa']")
len(brand_descp)
```

brand_descp

```
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```

```
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```

```

descp=[]
for i in brand_descp:
    descp.append(i.text)
len(descp)
descp

['Sports Running Shoes Sneakers For Men',
'Super 445 Fashion Sneakers For Men',
'Sneakers For Men',
'Trendy white casual for men's and boys Sneakers For Men",
'casual sneaker shoes for men kardam&sons Sneakers For M...',
'Series 7 Sneakers For Men',
'Sneakers For Men',
'Men 5014 Latest Collection Stylish Casual Sports Loafer...',
'Sneakers For Men',
'Casuals, Canvas, Partywear Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'Latest Collection-1227 Stylish Casual Sports Sneakers F...',
'Latest Collection-1215 Stylish Casual Sports Sneakers F...',
'Sneakers For Men',
'sneaker men red 1258 - 9 Sneakers For Men',
'Sneakers For Men',
'white Casual shoes,Sneakers for men's Sneakers For Men",
'casual for men Sneakers For Men',
'Casual Sneakrs For Men Sneakers For Men',
'Sneakers For Men',
'Men's Sneakers Fashion Lightweight Running Shoes Tennis...",
'Court Royale 2 Next Nature Sneakers For Men',
'Men's Sneakers Fashion Lightweight Running Shoes Tennis...",
'Combo Pack Of 4 Casual Shoes Loafer Shoes Sneakers For ...',
'BMW MMS X-Ray Speed Sneakers For Men',
'Sneakers For Men',
'Unique & Perfect Collection Combo Pack of 02 Shoes for ...',
'Casual , Partywear Sneakers Shoes For Men's And Boys Wh...',
'Men Casual Shoe New Trend With Fashion Panda Desgined L...']

```

extracting product price

```

brand_price=driver.find_elements_by_xpath("//div[@class='_30jeq3']")
len(brand_price)

```

40

brand_price

```

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```

```
price=[]
for i in brand_price:
    price.append(i.text)
len(price)
price
```

```
['₹301',
'₹282',
'₹354',
'₹398',
'₹1,099',
'₹349',
'₹449',
'₹424',
'₹209',
'₹349',
'₹449',
'₹369',
'₹499',
'₹444',
'₹269',
'₹424',
'₹566',
'₹209',
'₹159',
'₹449',
'₹170',
'₹534',
'₹354',
'₹590',
'₹449',
'₹399',
'₹586',
```



```
'₹379',  
'₹449',  
'₹248',  
'₹2,626',  
'₹549',  
'₹449',  
'₹449',  
'₹4,149',  
'₹399',  
'₹374',  
'₹334',  
'₹354',  
'₹949']
```

extracting product discount

```
brand_disc=driver.find_elements_by_xpath("//div[@class='_3Ay6Sb']")  
len(brand_disc)
```

40

brand_disc

```
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```

```

discount=[]
for i in brand_disc:
    discount.append(i.text)
len(discount)
discount

```

```

['69% off',
 '43% off',

```

'82% off',
 '80% off',
 '76% off',
 '73% off',
 '55% off',
 '57% off',
 '58% off',
 '65% off',
 '55% off',
 '63% off',
 '66% off',
 '55% off',
 '86% off',
 '57% off',
 '62% off',
 '58% off',
 '68% off',
 '77% off',
 '65% off',
 '46% off',
 '76% off',
 '40% off',
 '70% off',
 '60% off',
 '54% off',
 '70% off',
 '55% off',
 '75% off',
 '34% off',
 '81% off',
 '55% off',
 '87% off',
 '40% off',
 '60% off',
 '75% off',
 '66% off',
 '64% off',
 '56% off']

```
sneakers_2=pd.DataFrame()
sneakers_2['Brand_name']=brand[0:32]
sneakers_2['Brand_Description']=descp
sneakers_2['Brand_Price']=price[0:32]
sneakers_2['Brand_Discount']=discount[0:32]
sneakers_2
```

	Brand_name	Brand_Description \
0	BIRDE	Sports Running Shoes Sneakers For
Men		
1	Chevit	Super 445 Fashion Sneakers For

Men			
2	India hub		Sneakers For
Men			
3	EMPTILE	Trendy white casual for men's and boys	
Sneaker...			
4	RED TAPE	casual sneaker shoes for men kardam&sons	
Sneak...			
5	India hub		Series 7 Sneakers For
Men			
6	Kraasa		Sneakers For
Men			
7	Robbie jones	Men 5014 Latest Collection Stylish Casual	
Spor...			
8	World Wear Footwear		Sneakers For
Men			
9	Elevarse	Casuals, Canvas, Partywear	Sneakers For
Men			
10	Kraasa		Sneakers For
Men			
11	Strollin		Sneakers For
Men			
12	corsac		Sneakers For
Men			
13	Rzisbo		Sneakers For
Men			
14	aadi	Latest Collection-1227 Stylish Casual Sports	
S...			
15	Robbie jones	Latest Collection-1215 Stylish Casual Sports	
S...			
16	CLYMB		Sneakers For
Men			
17	World Wear Footwear	sneaker men red 1258 - 9	Sneakers For
Men			
18	World Wear Footwear		Sneakers For
Men			
19	Nilatin	white Casual shoes,Sneakers for men's	
Sneakers...			
20	Airland	casual for men	Sneakers For
Men			
21	Hida	Casual Sneakrs For Men	Sneakers For
Men			
22	TR		Sneakers For
Men			
23	RapidBox	Men's Sneakers Fashion Lightweight Running	
Sho...			
24	Xtoon	Court Royale 2 Next Nature	Sneakers For
Men			
25	bluemaker	Men's Sneakers Fashion Lightweight Running	
Sho...			
26	Vellinto	Combo Pack Of 4 Casual Shoes Loafer Shoes	

Snea...
 27 Numenzo BMW MMS X-Ray Speed Sneakers For
 Men
 28 Echor Sneakers For
 Men
 29 Gentax Unique & Perfect Collection Combo Pack of 02
 S...
 30 NIKE Casual , Partywear Sneakers Shoes For Men's
 An...
 31 Navtrend Men Casual Shoe New Trend With Fashion Panda
 D...

	Brand_Price	Brand_Discount
0	₹301	69% off
1	₹282	43% off
2	₹354	82% off
3	₹398	80% off
4	₹1,099	76% off
5	₹349	73% off
6	₹449	55% off
7	₹424	57% off
8	₹209	58% off
9	₹349	65% off
10	₹449	55% off
11	₹369	63% off
12	₹499	66% off
13	₹444	55% off
14	₹269	86% off
15	₹424	57% off
16	₹566	62% off
17	₹209	58% off
18	₹159	68% off
19	₹449	77% off
20	₹170	65% off
21	₹534	46% off
22	₹354	76% off
23	₹590	40% off
24	₹449	70% off
25	₹399	60% off
26	₹586	54% off
27	₹379	70% off
28	₹449	55% off
29	₹248	75% off
30	₹2,626	34% off
31	₹549	81% off

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div[12]/div/div/nav/a[4]")
next_pg.click()
```

##extracting brand name

```
brand_name=driver.find_elements_by_xpath("//div[@class='_2WkVRV']")  
len(brand_name)
```

40

brand_name

```
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```



```

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```

```

brand=[]
for i in brand_name:
    brand.append(i.text)
len(brand)
brand

```

```

['PUMA',
 'Gentax',
 'Chevit',
 'Brucharm',
 'D-SNEAKERZ',
 'SPARX',
 'LuvShus',
 'Red Rose',
 'Skechers',
 'Robbie jones',
 'AMICO',
 'HRX by Hrithik Roshan',
 'HOTSTYLE',
 'Xtoon',
 'LE GREEM',
 'PROVOGUE',
 'Navtrend',

```

```
'Arohi',
'Robbie jones',
'asics',
'Absolute comfort',
'BRUTON',
'T-ROCK',
'SLAZENGER',
'PUMA',
'Robbie jones',
'DUCATI',
'REEBOK CLASSICS',
'Trendmode',
'HOTSTYLE',
'KNIGHT WALKERS',
'DUCATI',
'Magnolia',
'RODDICK SHOES',
'TR',
'RED CHIEF',
'EZDEZARIO',
'Airland',
'CLYMB',
'otoos']
```

extracting product description

```
brand_descp=driver.find_elements_by_xpath(("//a[@class='IRpwTa']"))
len(brand_descp)
```

33

brand_descp

```
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```

```

descp=[]
for i in brand_descp:
    descp.append(i.text)
len(descp)
descp

```

```

['BMW MMS X-Ray Speed Sneakers For Men',
'Unique & Perfect Collection Combo Pack of 02 Shoes for ...',
'Comfortable Outdoors/Gym&Workout/Running Shoes/Attracti...',
"Casual , Partywear Sneakers Shoes For Men's And Boys Wh...",
'SM-671 Sneakers For Men',
'Men Casual Shoe New Trend With Fashion Panda Desgined L...',
'Sneakers For Men',
'Summits - Brisbane Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'white Casual shoes,Sneakers for men's Sneakers For Men",
'Comfortable & Ultra Light Weight Sneaker Sneakers For M...',

```

```
'Sneakers For Men',
'Sneakers For Men',
'GEL-NANDI 360 Sneakers For Men',
'Combo Pack Of 2 Latest Stylish Casual Shoes for Men Lac...',
'Sneakers For Men',
'Casual Sneakers White Shoes For Men Sneakers For Men',
'Sneakers For Men',
'CL LTHR Sneakers For Men',
'Sneakers For Men',
'CR-1 Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'Sneakers For Men',
'Fashion Outdoor Canvas Casual Light Weight Lace-up Even...',
'Sneakers For Men',
'RC1975 022 Corporate Casuals For Men',
'Shoes in Black Color Party wear/Outdoor/Casual Shoes Fo...',
'Sneakers For Men',
'Khalifa/Walking/Outdoor/Sneakers Sneakers For Men']
```

extracting product price

```
brand_price=driver.find_elements_by_xpath("//div[@class='_30jeq3']")
len(brand_price)
```

40

brand_price

```
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```

```
price=[]
for i in brand_price:
    price.append(i.text)
len(price)
price
```

```
['₹4,149',
 '₹248',
 '₹374',
 '₹840',
 '₹334',
 '₹939',
 '₹354',
 '₹449',
 '₹2,078',
 '₹424',
 '₹499',
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 '₹448',
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 '₹159',
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 '₹424',
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 '₹3,547',
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 '₹598',
 '₹1,329',
 '₹374',
 '₹398',
 '₹291',
 '₹3,595',
 '₹349',
 '₹171',
 '₹566',
 '₹625']
```

extracting product discount


```
brand_disc=driver.find_elements_by_xpath("//div[@class='_3Ay6Sb']")
len(brand_disc)
```

```
40
```

```
brand_disc
```

```
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```

```
discount=[]
for i in brand_disc:
    discount.append(i.text)
len(discount)
discount
```

```
['40% off',
 '75% off',
 '75% off',
 '53% off',
 '66% off',
 '14% off',
 '64% off',
 '55% off',
 '51% off',
 '57% off',
 '50% off',
 '61% off',
 '80% off',
 '55% off',
 '60% off',
 '62% off',
 '81% off',
 '62% off',
```

'57% off',
 '56% off',
 '68% off',
 '82% off',
 '75% off',
 '67% off',
 '41% off',
 '57% off',
 '62% off',
 '40% off',
 '57% off',
 '60% off',
 '60% off',
 '69% off',
 '62% off',
 '60% off',
 '70% off',
 '1% off',
 '65% off',
 '65% off',
 '62% off',
 '68% off']

```
sneakers_3=pd.DataFrame()
sneakers_3['Brand_name']=brand[0:33]
sneakers_3['Brand_Description']=descp
sneakers_3['Brand_Price']=price[0:33]
sneakers_3['Brand_Discount']=discount[0:33]
sneakers_3
```

	Brand_name	Brand_Description \
0	PUMA	BMW MMS X-Ray Speed Sneakers
For Men		
1	Gentax	Unique & Perfect Collection Combo Pack of
02 S...		
2	Chevit	Comfortable Outdoors/Gym&Workout/Running
Shoes...		
3	Brucharm	Casual , Partywear Sneakers Shoes For Men's
An...		
4	D-SNEAKERZ	SM-671 Sneakers
For Men		
5	SPARX	Men Casual Shoe New Trend With Fashion
Panda D...		
6	LuvShus	Sneakers
For Men		
7	Red Rose	Summits - Brisbane Sneakers
For Men		
8	Skechers	Sneakers
For Men		
9	Robbie jones	Sneakers

For Men			
10	AMICO		Sneakers
For Men			
11	HRX by Hrithik Roshan		Sneakers
For Men			
12	HOTSTYLE	white Casual shoes,Sneakers for men's	
Sneakers...			
13	Xtoon	Comfortable & Ultra Light Weight Sneaker	
Sneak...			
14	LE GREEM		Sneakers
For Men			
15	PROVOGUE		Sneakers
For Men			
16	Navtrend	GEL-NANDI 360	Sneakers
For Men			
17	Arohi	Combo Pack Of 2 Latest Stylish Casual Shoes	
fo...			
18	Robbie jones		Sneakers
For Men			
19	asics	Casual Sneakers White Shoes For Men	
Sneakers F...			
20	Absolute comfort		Sneakers
For Men			
21	BRUTON	CL LTHR	Sneakers
For Men			
22	T-ROCK		Sneakers
For Men			
23	SLAZENGER	CR-1	Sneakers
For Men			
24	PUMA		Sneakers
For Men			
25	Robbie jones		Sneakers
For Men			
26	DUCATI		Sneakers
For Men			
27	REEBOK CLASSICS	Fashion Outdoor Canvas Casual Light Weight	
Lac...			
28	Trendmode		Sneakers
For Men			
29	HOTSTYLE	RC1975 022 Corporate Casuals	
For Men			
30	KNIGHT WALKERS	Shoes in Black Color Party	
wear/Outdoor/Casual...			
31	DUCATI		Sneakers
For Men			
32	Magnolia	Khalifa/Walking/Outdoor/Sneakers	Sneakers
For Men			

	Brand_Price	Brand_Discount
0	₹4,149	40% off

1	₹248	75% off
2	₹374	75% off
3	₹840	53% off
4	₹334	66% off
5	₹939	14% off
6	₹354	64% off
7	₹449	55% off
8	₹2,078	51% off
9	₹424	57% off
10	₹499	50% off
11	₹1,549	61% off
12	₹195	80% off
13	₹448	55% off
14	₹399	60% off
15	₹709	62% off
16	₹548	81% off
17	₹379	62% off
18	₹424	57% off
19	₹4,801	56% off
20	₹159	68% off
21	₹449	82% off
22	₹249	75% off
23	₹749	67% off
24	₹1,749	41% off
25	₹424	57% off
26	₹1,239	62% off
27	₹3,547	40% off
28	₹300	57% off
29	₹199	60% off
30	₹598	60% off
31	₹1,329	69% off
32	₹374	62% off

\	Brand_name	Brand_Description
0	Roadster	Men Blue Solid Sneakers Sneakers For Men
1	Smoky	Trendy Sneakers For Men
2	URBANBOX	Super Stylish & Trendy Combo Pack of 02 Pairs ...
3	Chevit	Kwik FIT casual sneaker shoes and partywear sh...
4	KWIK FIT	casual sneaker shoes for men luxury fashion ca...
..
28	Trendmode	Sneakers For Men

29	HOTSTYLE	RC1975 022 Corporate Casuals For Men
30	KNIGHT WALKERS	Shoes in Black Color Party wear/Outdoor/Casual...
31	DUCATI	Sneakers For Men
32	Magnolia	Khalifa/Walking/Outdoor/Sneakers Sneakers For Men

	Brand_Price	Brand_Discount
0	₹1,139	59% off
1	₹499	58% off
2	₹197	80% off
3	₹469	70% off
4	₹347	82% off
..
28	₹300	57% off
29	₹199	60% off
30	₹598	60% off
31	₹1,329	69% off
32	₹374	62% off

[98 rows x 4 columns]

```
next_pg=driver.find_element_by_xpath("/html/body/div[1]/div/div[3]/div[1]/div[2]/div[12]/div/div/nav/a[5]")
next_pg.click()
```

##extracting brand name

```
brand_name=driver.find_elements_by_xpath("//div[@class='_2WkVRV']")
len(brand_name)
```

40

brand_name

```
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```

```
brand=[]  
for i in brand_name:  
    brand.append(i.text)  
len(brand)  
brand
```

```
['Airland',  
'CLYMB',  
'Gentax',  
'EMPTILE',  
'EMPTILE',  
'ZF - ALFIYA',  
'PUMA',  
'Ardeo',  
'Chevit',  
'AMICO',  
'HIGHLANDER',  
'Strollin',  
'CLYMB',  
'aadi',  
'World Wear Footwear',  
'Ardeo',  
'Rzisbo',  
'Chevit',  
'Noztile',  
'Ardeo',  
'RED TAPE',  
'World Wear Footwear',  
'T-ROCK',  
'RapidBox',  
'India hub',  
'WHITE WALKERS',  
'Extoes',  
'Navtrend',  
'India hub',  
'RODDICK SHOES',  
'DUCATI',  
'Numenzo',  
'Robbie jones',  
'WHITE WALKERS',  
'luxury fashion',  
'Nilatin',  
'Kraasa',  
'PUMA',
```

```
'ASIAN',  
'Numenzo']
```

```
#### extracting product description
```

```
brand_descp=driver.find_elements_by_xpath(("//a[@class='IRpwTa']"))  
len(brand_descp)
```

```
31
```

```
brand_descp
```

```
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```
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```

```
descp=[]  
for i in brand_descp:  
    descp.append(i.text)  
len(descp)  
descp
```

```
['Sneakers For Men',  
'Khalifa/Walking/Outdoor/Sneakers Sneakers For Men',  
"Trendy white casual for men's and boys Sneakers For Men",  
'all white heartbeat casual shoe Sneakers For Men',  
'Sneakers For Men',  
'Puma Smash v2 L Sneakers For Men',  
"Men's Combo Pack of 02 Shoes for Men Casual Sneakers Ou...",  
'Sneakers For Men',  
'Sneakers For Men',  
'Sneakers For Men',  
'Sports/Running/Training/Gym Sneakers For Men',  
'Sneakers For Men',  
'Latest Collection Black-349 Trendy & Stylish Casual Sne...',  
'Sneakers For Men',  
'CH-527 Trendy Star Perfect Casuals Sneakers For Men',  
'Sneakers For Men',  
'Exclusive Affordable Collection of Trendy & Stylish Cas...',  
'Stylish White Casual Sneakers shoes Men and Boys Sneake...',  
'Stylish & Trending Outdoor Walking Comfortable Sneakers...',  
'Sneakers For Men',  
'luxury fashionable casual sneaker shoes Sneakers For Me...',  
'Fashion Outdoor Canvas Casual Light Weight Lace-up Even...',  
'Sneakers For Men',  
'Sneakers For Men',  
'Sneakers For Men',  
'Stylish & Trending Outdoor Walking Comfortable Sneakers...',  
'Fashionable sneaker shoes Sneakers For Men',  
'Sneakers For Men',  
'Puma Smash v2 L Sneakers For Men',  
'Skypy-31 Walking Shoes, Training Shoes, Sneakers, Loafers, ...',  
'Sneakers For Men']
```

```
#### extracting product price
```

```
brand_price=driver.find_elements_by_xpath("//div[@class='_30jeq3']")  
len(brand_price)
```

```
40
```

```
brand_price
```

```
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```

```
price=[]
for i in brand_price:
    price.append(i.text)
len(price)
price
```

```
['₹171',
'₹566',
'₹248',
'₹398',
'₹349',
'₹349',
'₹2,049',
'₹429',
'₹429',
'₹499',
'₹945',
'₹369',
'₹186',
'₹191',
'₹199',
'₹398',
'₹489',
'₹244',
'₹349',
'₹449',
'₹1,099',
'₹151',
'₹349',
'₹590',
```



```
'₹390',  
'₹549',  
'₹183',  
'₹549',  
'₹374',  
'₹399',  
'₹3,449',  
'₹379',  
'₹424',  
'₹549',  
'₹449',  
'₹449',  
'₹399',  
'₹2,049',  
'₹498',  
'₹399']
```

extracting product discount

```
brand_disc=driver.find_elements_by_xpath("//div[@class='_3Ay6Sb']")  
len(brand_disc)
```

```
40
```

```
brand_disc
```

```
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46e6-9903-40e375cd12de")>]

```

```

discount=[]
for i in brand_disc:
    discount.append(i.text)

```

```
len(discount)
discount
```

```
['65% off',
 '62% off',
 '75% off',
 '80% off',
 '65% off',
 '65% off',
 '41% off',
 '73% off',
 '76% off',
 '50% off',
 '52% off',
 '63% off',
 '81% off',
 '80% off',
 '60% off',
 '75% off',
 '51% off',
 '69% off',
 '82% off',
 '71% off',
 '76% off',
 '69% off',
 '65% off',
 '40% off',
 '69% off',
 '54% off',
 '63% off',
 '81% off',
 '71% off',
 '60% off',
 '1% off',
 '70% off',
 '57% off',
 '54% off',
 '77% off',
 '77% off',
 '60% off',
 '41% off',
 '37% off',
 '60% off']
```

```
sneakers_4=pd.DataFrame()
sneakers_4['Brand_name']=brand[0:31]
sneakers_4['Brand_Description']=descp
sneakers_4['Brand_Price']=price[0:31]
sneakers_4['Brand_Discount']=discount[0:31]
sneakers_4
```

	Brand_name	Brand_Description \	
0	Airland		Sneakers For
Men			
1	CLYMB	Khalifa/Walking/Outdoor/Sneakers	Sneakers For
Men			
2	Gentax	Trendy white casual for men's and boys	
Sneaker...			
3	EMPTILE	all white heartbeat casual shoe	Sneakers For
Men			
4	EMPTILE		Sneakers For
Men			
5	ZF - ALFIYA	Puma Smash v2 L	Sneakers For
Men			
6	PUMA	Men's Combo Pack of 02 Shoes for Men	Casual
Sn...			
7	Ardeo		Sneakers For
Men			
8	Chevit		Sneakers For
Men			
9	AMICO		Sneakers For
Men			
10	HIGHLANDER	Sports/Running/Training/Gym	Sneakers For
Men			
11	Strollin		Sneakers For
Men			
12	CLYMB	Latest Collection Black-349 Trendy & Stylish	
C...			
13	aadi		Sneakers For
Men			
14	World Wear Footwear	CH-527 Trendy Star Perfect Casuals	Sneakers
Fo...			
15	Ardeo		Sneakers For
Men			
16	Rzisbo	Exclusive Affordable Collection of Trendy &	
St...			
17	Chevit	Stylish White Casual Sneakers shoes Men and	
Bo...			
18	Noztile	Stylish & Trending Outdoor Walking	
Comfortable...			
19	Ardeo		Sneakers For
Men			
20	RED TAPE	luxury fashionable casual sneaker shoes	
Sneake...			
21	World Wear Footwear	Fashion Outdoor Canvas Casual Light Weight	
Lac...			
22	T-ROCK		Sneakers For
Men			
23	RapidBox		Sneakers For
Men			

24	India hub	Sneakers For
Men		
25	WHITE WALKERS	Stylish & Trending Outdoor Walking
Comfortable...		
26	Extoes	Fashionable sneaker shoes Sneakers For
Men		
27	Navtrend	Sneakers For
Men		
28	India hub	Puma Smash v2 L Sneakers For
Men		
29	RODDICK SHOES	Skypy-31 Walking Shoes,Training
Shoes,Sneakers...		
30	DUCATI	Sneakers For
Men		

	Brand_Price	Brand_Discount
0	₹171	65% off
1	₹566	62% off
2	₹248	75% off
3	₹398	80% off
4	₹349	65% off
5	₹349	65% off
6	₹2,049	41% off
7	₹429	73% off
8	₹429	76% off
9	₹499	50% off
10	₹945	52% off
11	₹369	63% off
12	₹186	81% off
13	₹191	80% off
14	₹199	60% off
15	₹398	75% off
16	₹489	51% off
17	₹244	69% off
18	₹349	82% off
19	₹449	71% off
20	₹1,099	76% off
21	₹151	69% off
22	₹349	65% off
23	₹590	40% off
24	₹390	69% off
25	₹549	54% off
26	₹183	63% off
27	₹549	81% off
28	₹374	71% off
29	₹399	60% off
30	₹3,449	1% off

```
df_sneakers= pd.concat([sneakers_1,sneakers_2,sneakers_3,sneakers_4])
df_sneakers[0:100]
```

	Brand_name	Brand_Description
0	Roadster	Men Blue Solid Sneakers Sneakers For Men
1	Smoky	Trendy Sneakers For Men
2	URBANBOX	Super Stylish & Trendy Combo Pack of 02 Pairs ...
3	Chevit	Kwik FIT casual sneaker shoes and partywear sh...
4	KWIK FIT	casual sneaker shoes for men luxury fashion ca...
..
30	KNIGHT WALKERS	Shoes in Black Color Party wear/Outdoor/Casual...
31	DUCATI	Sneakers For Men
32	Magnolia	Khalifa/Walking/Outdoor/Sneakers Sneakers For Men
0	Airland	Sneakers For Men
1	CLYMB	Khalifa/Walking/Outdoor/Sneakers Sneakers For Men

	Brand_Price	Brand_Discount
0	₹1,139	59% off
1	₹499	58% off
2	₹197	80% off
3	₹469	70% off
4	₹347	82% off
..
30	₹598	60% off
31	₹1,329	69% off
32	₹374	62% off
0	₹171	65% off
1	₹566	62% off

[100 rows x 4 columns]

#####7

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

```

driver=webdriver.Chrome(r"C:/Users/Lenovo/Downloads/
chromedriver_win32/chromedriver.exe")

url = "https://www.myntra.com/shoes"
driver.get(url)

price_filter=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/div")
price_filter.click()

col_filter=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/div")
col_filter.click()

#### extracting product brand
brand_name=driver.find_elements_by_xpath("//h3[@class='product-
brand']")
len(brand_name)

50

brand_name

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```

```

brand=[]
for i in brand_name:
    brand.append(i.text)
len(brand)
brand

```

```

['ALDO',
'ALDO',
'Nike',
'ALDO',
'ALDO',
'ALDO',
'ALDO',
'Skechers',
'Puma',
'Puma',
'Hush Puppies',
'Puma',
'ADIDAS',
'Puma',
'Skechers',
'PUMA Motorsport',
'Hush Puppies',
'ADIDAS',
'ASICS',
'Bugatti',
'PUMA Motorsport',
'Tommy Hilfiger',

```

```
'Bugatti',
'Hush Puppies',
'Clarks',
'ADIDAS',
'Saint G',
'Tommy Hilfiger',
'Puma',
'Bugatti',
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'Columbia',
'ADIDAS Originals',
'Skechers',
'DEL MONDO',
'Bugatti',
'ROSSO BRUNELLO',
'ADIDAS',
'DAVINCHI',
'Bugatti',
'Puma',
'DAVINCHI',
'PERFLY By Decathlon',
'Puma',
'TRIBAN By Decathlon',
'Puma',
'Saint G',
'FILA']
```

extracting product description

```
brand_descp=driver.find_elements_by_xpath("//h4[@class='product-  
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len(brand_descp)
```

50

brand_descp

```
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```

```
Description=[]
for i in brand_descp:
    Description.append(i.text)
len(Description)
Description

['Men Sneakers',
'Men Driving Shoes',
'Men Zoom Fly 4 Running Shoes',
'Men Leather Loafers',
'Men Printed Sneakers',
'Men Woven Design Sneakers',
```

'Men Leather Driving Shoes',
'Men Max Cushioning Running',
'Men Jamming 2.0 Running Shoes',
'Men Colourblocked RS-Z Core',
'Men Solid Leather Formal Slip-Ons',
'Electrify Nitro Running Shoes',
'Men Dropset Training Shoes',
'Eternity Nitro Running Shoes',
'Men Walking Shoes',
'Unisex Ferrari IONSpeed',
'Men Solid Leather Formal Derbys',
'Men SL20.3 Running Shoes',
'Men Running Shoes',
'Men Solid Sneakers',
'Unisex Speed Fusion Sneakers',
'Men Textured Loafers',
'Men Black Formal Derby Shoes',
'Men Solid Leather Formal Slip-Ons',
'Men Leather Derbys',
'Men Solar Glide 5 Running Shoe',
'Women Leather Kitten Heels',
'Men Leather Sneakers',
'Women Velocity NITRO Runners',
'Men Solid Formal Oxfords',
'Men Solid Leather Formal Derbys',
'Men Black Walking Shoes',
'Men KING Top Football Shoes',
'Men FACET OUTDRY Trekking Shoe',
'Women New Her Court Sneakers',
'Men Sky Vault Walking Shoes',
'Men Leather Sneakers',
'Men Leather Driving Shoes',
'Men Solid Leather Formal Derbys',
'Women Dropset Training Shoes',
'Men Solid Leather Formal Loafers',
'Men Leather Monks',
'Women LQDC OP Training Shoes',
'Men Solid Leather Formal Derbys',
'Men Textile Badminton Shoes',
'Unisex KING Top FG Shoes',
'Unisex Training or Gym Shoes',
'Women Eternity NITRO Shoes',
'Women Leather Block Heels',
'Women Colourblocked Leather Sneakers']

extracting product price

```
brand_price=driver.find_elements_by_xpath("//span[@class='product-  
discountedPrice']")  
len(brand_price)
```


brand_price

```
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```

```

Price=[]
for i in brand_price:
    Price.append(i.text)
len(Price)
Price

```

```

['Rs. 8399',
 'Rs. 13045',
 'Rs. 11199',
 'Rs. 9099',

```

```
'Rs. 10499',  
'Rs. 7649',  
'Rs. 11049',  
'Rs. 8499',  
'Rs. 7649',  
'Rs. 8499',  
'Rs. 10399',  
'Rs. 10399',  
'Rs. 7199',  
'Rs. 7649',  
'Rs. 8499',  
'Rs. 10199',  
'Rs. 8499',  
'Rs. 11199',  
'Rs. 7699',  
'Rs. 7199',  
'Rs. 10199',  
'Rs. 8249',  
'Rs. 10399',  
'Rs. 8499',  
'Rs. 9211',  
'Rs. 8399',  
'Rs. 8029',  
'Rs. 7799',  
'Rs. 8550']
```

extracting product price

```
brand_price_1_1=driver.find_elements_by_xpath("//div[@class='product-price']")
```

```
len(brand_price_1_1)
```

```
50
```

```
brand_price_1_1
```

```
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```

```

Price_1_1=[]
for i in brand_price_1_1:
    Price_1_1.append(i.text)
len(Price_1_1)
Price_1_1

['Rs. 9999',
 'Rs. 8399Rs. 11999(30% OFF)',
 'Rs. 13045Rs. 14495(10% OFF)',
 'Rs. 11199Rs. 15999(30% OFF)',
 'Rs. 9099Rs. 12999(30% OFF)',
 'Rs. 13999',
 'Rs. 10499Rs. 14999(30% OFF)',
 'Rs. 7649Rs. 8999(15% OFF)',
 'Rs. 11049Rs. 12999(15% OFF)',
 'Rs. 8499Rs. 9999(15% OFF)']

```

```
'Rs. 7649Rs. 8999(15% OFF) ',
'Rs. 8499Rs. 9999(15% OFF) ',
'Rs. 10399Rs. 12999(20% OFF) ',
'Rs. 10399Rs. 12999(20% OFF) ',
'Rs. 7199Rs. 8999(20% OFF) ',
'Rs. 7649Rs. 8999(15% OFF) ',
'Rs. 8499Rs. 9999(15% OFF) ',
'Rs. 10199Rs. 11999(15% OFF) ',
'Rs. 7999 ',
'Rs. 10499 ',
'Rs. 7999 ',
'Rs. 8999 ',
'Rs. 11999 ',
'Rs. 8499Rs. 9999(15% OFF) ',
'Rs. 7499 ',
'Rs. 11199Rs. 13999(20% OFF) ',
'Rs. 7500 ',
'Rs. 8599 ',
'Rs. 7699Rs. 10999(30% OFF) ',
'Rs. 8999 ',
'Rs. 9499 ',
'Rs. 7199Rs. 8999(20% OFF) ',
'Rs. 10199Rs. 11999(15% OFF) ',
'Rs. 12999 ',
'Rs. 8249Rs. 10999(25% OFF) ',
'Rs. 8999 ',
'Rs. 7890 ',
'Rs. 8499 ',
'Rs. 10999 ',
'Rs. 10399Rs. 12999(20% OFF) ',
'Rs. 8490 ',
'Rs. 8999 ',
'Rs. 8499Rs. 9999(15% OFF) ',
'Rs. 7990 ',
'Rs. 9211Rs. 9799(6% OFF) ',
'Rs. 8399Rs. 11999(30% OFF) ',
'Rs. 8029Rs. 10999(27% OFF) ',
'Rs. 7799Rs. 12999(40% OFF) ',
'Rs. 8550Rs. 9500(10% OFF) ',
'Rs. 9999 ']
```

```
sneakers_1=pd.DataFrame()
sneakers_1['Brand_name']=brand
sneakers_1['Brand_Description']=Description
sneakers_1['Brand_Price']=Price_1_1
sneakers_1
```

	Brand_name	Brand_Description \
0	ALDO	Men Sneakers
1	ALDO	Men Driving Shoes
2	Nike	Men Zoom Fly 4 Running Shoes

3	ALDO	Men Leather Loafers
4	ALDO	Men Printed Sneakers
5	ALDO	Men Woven Design Sneakers
6	ALDO	Men Leather Driving Shoes
7	Skechers	Men Max Cushioning Running
8	Puma	Men Jamming 2.0 Running Shoes
9	Puma	Men Colourblocked RS-Z Core
10	Hush Puppies	Men Solid Leather Formal Slip-Ons
11	Puma	Electrify Nitro Running Shoes
12	ADIDAS	Men Dropset Training Shoes
13	Puma	Eternity Nitro Running Shoes
14	Skechers	Men Walking Shoes
15	PUMA Motorsport	Unisex Ferrari IONSpeed
16	Hush Puppies	Men Solid Leather Formal Derbys
17	ADIDAS	Men SL20.3 Running Shoes
18	ASICS	Men Running Shoes
19	Bugatti	Men Solid Sneakers
20	PUMA Motorsport	Unisex Speed Fusion Sneakers
21	Tommy Hilfiger	Men Textured Loafers
22	Bugatti	Men Black Formal Derby Shoes
23	Hush Puppies	Men Solid Leather Formal Slip-Ons
24	Clarks	Men Leather Derbys
25	ADIDAS	Men Solar Glide 5 Running Shoe
26	Saint G	Women Leather Kitten Heels
27	Tommy Hilfiger	Men Leather Sneakers
28	Puma	Women Velocity NITRO Runners
29	Bugatti	Men Solid Formal Oxfords
30	Bugatti	Men Solid Leather Formal Derbys
31	Bugatti	Men Black Walking Shoes
32	Puma	Men KING Top Football Shoes
33	Columbia	Men FACET OUTDRY Trekking Shoe
34	ADIDAS Originals	Women New Her Court Sneakers
35	Skechers	Men Sky Vault Walking Shoes
36	DEL MONDO	Men Leather Sneakers
37	Bugatti	Men Leather Driving Shoes
38	ROSSO BRUNELLO	Men Solid Leather Formal Derbys
39	ADIDAS	Women Dropset Training Shoes
40	DAVINCHI	Men Solid Leather Formal Loafers
41	Bugatti	Men Leather Monks
42	Puma	Women LQDC OP Training Shoes
43	DAVINCHI	Men Solid Leather Formal Derbys
44	PERFLY By Decathlon	Men Textile Badminton Shoes
45	Puma	Unisex KING Top FG Shoes
46	TRIBAN By Decathlon	Unisex Training or Gym Shoes
47	Puma	Women Eternity NITRO Shoes
48	Saint G	Women Leather Block Heels
49	FILA	Women Colourblocked Leather Sneakers

Brand_Price

Rs. 9999

1	Rs. 8399	Rs. 11999	(30% OFF)
2	Rs. 13045	Rs. 14495	(10% OFF)
3	Rs. 11199	Rs. 15999	(30% OFF)
4	Rs. 9099	Rs. 12999	(30% OFF)
5		Rs. 13999	
6	Rs. 10499	Rs. 14999	(30% OFF)
7	Rs. 7649	Rs. 8999	(15% OFF)
8	Rs. 11049	Rs. 12999	(15% OFF)
9	Rs. 8499	Rs. 9999	(15% OFF)
10	Rs. 7649	Rs. 8999	(15% OFF)
11	Rs. 8499	Rs. 9999	(15% OFF)
12	Rs. 10399	Rs. 12999	(20% OFF)
13	Rs. 10399	Rs. 12999	(20% OFF)
14	Rs. 7199	Rs. 8999	(20% OFF)
15	Rs. 7649	Rs. 8999	(15% OFF)
16	Rs. 8499	Rs. 9999	(15% OFF)
17	Rs. 10199	Rs. 11999	(15% OFF)
18		Rs. 7999	
19		Rs. 10499	
20		Rs. 7999	
21		Rs. 8999	
22		Rs. 11999	
23	Rs. 8499	Rs. 9999	(15% OFF)
24		Rs. 7499	
25	Rs. 11199	Rs. 13999	(20% OFF)
26		Rs. 7500	
27		Rs. 8599	
28	Rs. 7699	Rs. 10999	(30% OFF)
29		Rs. 8999	
30		Rs. 9499	
31	Rs. 7199	Rs. 8999	(20% OFF)
32	Rs. 10199	Rs. 11999	(15% OFF)
33		Rs. 12999	
34	Rs. 8249	Rs. 10999	(25% OFF)
35		Rs. 8999	
36		Rs. 7890	
37		Rs. 8499	
38		Rs. 10999	
39	Rs. 10399	Rs. 12999	(20% OFF)
40		Rs. 8490	
41		Rs. 8999	
42	Rs. 8499	Rs. 9999	(15% OFF)
43		Rs. 7990	
44	Rs. 9211	Rs. 9799	(6% OFF)
45	Rs. 8399	Rs. 11999	(30% OFF)
46	Rs. 8029	Rs. 10999	(27% OFF)
47	Rs. 7799	Rs. 12999	(40% OFF)
48	Rs. 8550	Rs. 9500	(10% OFF)
49		Rs. 9999	

```
next_pg=driver.find_element_by_xpath("/html/body/div[2]/div/div[1]/main/div[3]/div[2]/div/div[2]/section/div[2]/ul/li[3]")
next_pg.click()
```

extracting product brand

```
brand_name=driver.find_elements_by_xpath("//h3[@class='product-brand']")
len(brand_name)
```

50

brand_name

```
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```

```

brand=[]
for i in brand_name:
    brand.append(i.text)
len(brand)
brand

```

```

['FILA',
 'Bugatti',
 'ASICS',
 'Saint G',
 'ALDO',
 'Bugatti',
 'Geox',
 'Geox',
 'Bugatti',
 'DAVINCHI',
 'ALDO',
 'J.FONTINI',
 'Bugatti',
 'Birkenstock',
 'Hush Puppies',
 'Royal Enfield',
 'ALDO',
 'Bugatti',
 'MANGO',
 'J.FONTINI',
 'Pavers England',
 'Saint G',
 'ALDO',
 'Saint G',
 'ALDO',
 'Cole Haan',
 'Heel & Buckle London',
 'J.FONTINI',
 'Florsheim',
 'J.FONTINI',
 'ASICS',

```

```
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'DAVINCHI',
'J.FONTINI',
'J.FONTINI',
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'DAVINCHI',
'Columbia',
'Geox',
'DAVINCHI',
'DAVINCHI',
'Birkenstock',
'Geox',
'Bugatti',
'Saint G',
'J.FONTINI',
'Sole To Soul',
'ALDO',
'ALDO']
```

extracting product description

```
brand_descp=driver.find_elements_by_xpath("//h4[@class='product-
product']")
len(brand_descp)
```

50

brand_descp

```
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```

Description=[]

for i **in** brand_descp:

 Description.append(i.text)

len(Description)

Description

```
['Women Colourblocked Leather Sneakers',
'Leather Heeled Knee Boots',
'Women Running Shoes',
'Men Mid-Top Chelsea Boots',
'Embellished Wedge Pumps',
'Men Textured Leather High-Top Flat Boots',
'Men Leather Driving Shoes',
'Men Leather Formal Slip-Ons',
'Women Leather Heeled Boots',
'Men Textured Formal Leather Loafers',
'Embellished Block Heels',
'Men Solid Loafers',
'Men Sneakers',
'Unisex Clogs Casual Shoes',
'Men Solid Formal Slip-Ons',
```

'Cabo WP Riding Boots',
 'Block Sandals With Buckles',
 'Leather Block Heeled Boots',
 'Embellish Mid-Top Heeled Boots',
 'Men Leather Formal Loafers',
 'Men Leather Driving Shoes',
 'Leather Block Sandals',
 'Wedge Sandals',
 'Women Leather Mules',
 'Women Solid Sneakers',
 'Men GENERATION ZEROGRAND STITCHLITE',
 'Men Formal Leather Derby',
 'Men Textured Leather Loafers',
 'Men Leather Formal Monks',
 'Men Textured Leather Loafers',
 'Women Running Shoes',
 'Men Leather Formal Loafers',
 'Men Formal Leather Slip-Ons',
 'Ustraa black',
 'Men Textured Leather Formal Loafers',
 'Men Solid Leather Formal Loafers',
 'Women REDMOND V2 TrekkingShoe',
 'Solid Slip On Shoes',
 'PEAKFREAK OUTDRY Trekking Shoe',
 'Women Leather Pumps',
 'Men Solid Leather Formal Derbys',
 'Men Textured Formal Leather Loafers',
 'Unisex Boston Super Grip Clogs',
 'Men Printed Slip-On Sneakers',
 'Men Walking Shoes',
 'Men Leather Chelsea Boots',
 'Men Black Leather Loafers',
 'Platform Peep Toes with Buckles',
 'Wedge Sandals',
 'Leather Slim Heels']

extracting product price

```

brand_price_1_1=driver.find_elements_by_xpath("//div[@class='product-
price']")
len(brand_price_1_1)

```

50

brand_price_1_1

```

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```

```
Price_1_1=[]
for i in brand_price_1_1:
    Price_1_1.append(i.text)
len(Price_1_1)
Price_1_1
```

['Rs. 9999' ,
 'Rs. 10399Rs. 12999(20% OFF)' ,
 'Rs. 7999' ,
 'Rs. 10500Rs. 10900(Rs. 400 OFF)' ,
 'Rs. 9999' ,
 'Rs. 9599Rs. 11999(20% OFF)' ,
 'Rs. 9499' ,
 'Rs. 8999' ,
 'Rs. 8799Rs. 10999(20% OFF)' ,
 'Rs. 8990' ,
 'Rs. 9999' ,
 'Rs. 8990' ,
 'Rs. 8799Rs. 10999(20% OFF)' ,
 'Rs. 8490' ,
 'Rs. 8499Rs. 9999(15% OFF)' ,
 'Rs. 8075Rs. 8500(5% OFF)' ,
 'Rs. 10999' ,
 'Rs. 7999Rs. 9999(20% OFF)' ,
 'Rs. 7990' ,
 'Rs. 7490' ,
 'Rs. 7499' ,
 'Rs. 9810Rs. 10900(10% OFF)' ,
 'Rs. 7999' ,
 'Rs. 7216Rs. 8200(12% OFF)' ,
 'Rs. 9999' ,
 'Rs. 11999' ,
 'Rs. 7990' ,
 'Rs. 7990' ,
 'Rs. 9995' ,
 'Rs. 8490' ,
 'Rs. 7999' ,
 'Rs. 7490' ,
 'Rs. 8990' ,
 'Rs. 8990' ,
 'Rs. 8990' ,
 'Rs. 9990' ,
 'Rs. 7999' ,
 'Rs. 7990' ,
 'Rs. 9999' ,
 'Rs. 8999' ,
 'Rs. 9990' ,
 'Rs. 8990' ,
 'Rs. 9290' ,
 'Rs. 10999' ,
 'Rs. 7199Rs. 8999(20% OFF)' ,
 'Rs. 10710Rs. 11900(10% OFF)' ,
 'Rs. 8490' ,
 'Rs. 7690' ,
 'Rs. 7999' ,
 'Rs. 7199Rs. 11999(40% OFF)']

```
sneakers_2=pd.DataFrame()
sneakers_2['Brand_name']=brand
sneakers_2['Brand_Description']=Description
sneakers_2['Brand_Price']=Price_1_1
sneakers_2
```

	Brand_name	Brand_Description \
0	FILA	Women Colourblocked Leather Sneakers
1	Bugatti	Leather Heeled Knee Boots
2	ASICS	Women Running Shoes
3	Saint G	Men Mid-Top Chelsea Boots
4	ALDO	Embellished Wedge Pumps
5	Bugatti	Men Textured Leather High-Top Flat Boots
6	Geox	Men Leather Driving Shoes
7	Geox	Men Leather Formal Slip-Ons
8	Bugatti	Women Leather Heeled Boots
9	DAVINCHI	Men Textured Formal Leather Loafers
10	ALDO	Embellished Block Heels
11	J.FONTINI	Men Solid Loafers
12	Bugatti	Men Sneakers
13	Birkenstock	Unisex Clogs Casual Shoes
14	Hush Puppies	Men Solid Formal Slip-Ons
15	Royal Enfield	Cabo WP Riding Boots
16	ALDO	Block Sandals With Buckles
17	Bugatti	Leather Block Heeled Boots
18	MANGO	Embellish Mid-Top Heeled Boots
19	J.FONTINI	Men Leather Formal Loafers
20	Pavers England	Men Leather Driving Shoes
21	Saint G	Leather Block Sandals
22	ALDO	Wedge Sandals
23	Saint G	Women Leather Mules
24	ALDO	Women Solid Sneakers
25	Cole Haan	Men GENERATION ZEROGRAND STITCHLITE
26	Heel & Buckle London	Men Formal Leather Derby
27	J.FONTINI	Men Textured Leather Loafers
28	Florsheim	Men Leather Formal Monks
29	J.FONTINI	Men Textured Leather Loafers
30	ASICS	Women Running Shoes
31	J.FONTINI	Men Leather Formal Loafers
32	DAVINCHI	Men Formal Leather Slip-Ons
33	DAVINCHI	Ustraa black
34	J.FONTINI	Men Textured Leather Formal Loafers
35	J.FONTINI	Men Solid Leather Formal Loafers
36	Columbia	Women REDMOND V2 TrekkingShoe
37	DAVINCHI	Solid Slip On Shoes
38	Columbia	PEAKFREAK OUTDRY Trekking Shoe
39	Geox	Women Leather Pumps
40	DAVINCHI	Men Solid Leather Formal Derbys
41	DAVINCHI	Men Textured Formal Leather Loafers
42	Birkenstock	Unisex Boston Super Grip Clogs

43	Geox	Men Printed Slip-On Sneakers
44	Bugatti	Men Walking Shoes
45	Saint G	Men Leather Chelsea Boots
46	J.FONTINI	Men Black Leather Loafers
47	Sole To Soul	Platform Peep Toes with Buckles
48	ALDO	Wedge Sandals
49	ALDO	Leather Slim Heels

	Brand_Price
0	Rs. 9999
1	Rs. 10399Rs. 12999(20% OFF)
2	Rs. 7999
3	Rs. 10500Rs. 10900(Rs. 400 OFF)
4	Rs. 9999
5	Rs. 9599Rs. 11999(20% OFF)
6	Rs. 9499
7	Rs. 8999
8	Rs. 8799Rs. 10999(20% OFF)
9	Rs. 8990
10	Rs. 9999
11	Rs. 8990
12	Rs. 8799Rs. 10999(20% OFF)
13	Rs. 8490
14	Rs. 8499Rs. 9999(15% OFF)
15	Rs. 8075Rs. 8500(5% OFF)
16	Rs. 10999
17	Rs. 7999Rs. 9999(20% OFF)
18	Rs. 7990
19	Rs. 7490
20	Rs. 7499
21	Rs. 9810Rs. 10900(10% OFF)
22	Rs. 7999
23	Rs. 7216Rs. 8200(12% OFF)
24	Rs. 9999
25	Rs. 11999
26	Rs. 7990
27	Rs. 7990
28	Rs. 9995
29	Rs. 8490
30	Rs. 7999
31	Rs. 7490
32	Rs. 8990
33	Rs. 8990
34	Rs. 8990
35	Rs. 9990
36	Rs. 7999
37	Rs. 7990
38	Rs. 9999
39	Rs. 8999
40	Rs. 9990


```

41                      Rs. 8990
42                      Rs. 9290
43                      Rs. 10999
44      Rs. 7199Rs. 8999(20% OFF)
45      Rs. 10710Rs. 11900(10% OFF)
46                      Rs. 8490
47                      Rs. 7690
48                      Rs. 7999
49      Rs. 7199Rs. 11999(40% OFF)

```

```

df_sneakers= pd.concat([sneakers_1,sneakers_2])
df_sneakers

```

	Brand_name	Brand_Description	
Brand_Price			
0	ALDO	Men Sneakers	
Rs. 9999			
1	ALDO	Men Driving Shoes	Rs. 8399Rs.
11999(30% OFF)			
2	Nike	Men Zoom Fly 4 Running Shoes	Rs. 13045Rs.
14495(10% OFF)			
3	ALDO	Men Leather Loafers	Rs. 11199Rs.
15999(30% OFF)			
4	ALDO	Men Printed Sneakers	Rs. 9099Rs.
12999(30% OFF)			
..	
...			
45	Saint G	Men Leather Chelsea Boots	Rs. 10710Rs.
11900(10% OFF)			
46	J.FONTINI	Men Black Leather Loafers	
Rs. 8490			
47	Sole To Soul	Platform Peep Toes with Buckles	
Rs. 7690			
48	ALDO	Wedge Sandals	
Rs. 7999			
49	ALDO	Leather Slim Heels	Rs. 7199Rs.
11999(40% OFF)			

```

[100 rows x 3 columns]

```

```
#####8
```

```

import selenium
from selenium import webdriver
import pandas as pd
import warnings
warnings.filterwarnings('ignore')

```

```

driver=webdriver.Chrome(r"C:/Users/Lenovo/Downloads/
chromedriver_win32/chromedriver.exe")

url = "https://www.amazon.in/"
driver.get(url)

srch_btn=driver.find_element_by_xpath("/html/body/div[1]/header/div/
div[1]/div[2]/div/form/div[2]/div[1]/input")
srch_btn.click()

srch_btn.send_keys("Laptop")

srch_btn=driver.find_element_by_xpath("/html/body/div[1]/header/div/
div[1]/div[2]/div/form/div[3]")
srch_btn.click()


cpu_type=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]/ul[4]/li[11]/
span/a/div/label/i")
cpu_type.click()

#### extracting product brand
brand_name=driver.find_elements_by_xpath("//span[@class='a-size-medium
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len(brand_name)

30

brand_name

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```

```

brand=[]
for i in brand_name:
    brand.append(i.text)
len(brand)
brand

```

```

['Dell 15 (2021) Inspiron 5518 Intel Thunderbolt 4.0 i7-11390H 15.6
Inches Notebook Computer (16GB, 1TB SSD, Windows 11 + MS Office 21,
NVIDIA MX450 2GB, FHD Display, Silver Color, FPR + Backlit KB)',
'Fujitsu UH-X 11th Gen Intel i7 Core 13.3 inches FHD IPS 400Nits
Business Laptop (16GB/512GB SSD/Windows 10/Office/Iris Xe
Graphics/Backlit Kb/ Fingerprint Reader/Black/0.878kg), 4ZR1D67596',
'ASUS VivoBook 14 (2021), 14-inch (35.56 cms) FHD, Intel Core i7-
1065G7 10th Gen, Thin and Light Laptop (16GB/512GB SSD/Integrated
Graphics/Office 2021/Windows 11/Silver/1.6 Kg), X415JA-EK701WS',
'HP Pavilion 14, 11th Gen Intel Core i7-16GB RAM/1TB SSD 14 inch(35.6
cm) Laptop/Intel Iris Xe Graphics/Backlit Keyboard/Alexa/B&O
Audio/Fast Charge/FPR/Win 11/MS Office, 14-dv1029TU,Natural Silver',
'Lenovo ThinkBook 15 Intel 11th Gen Core i7 15.6"(39.62 cm)FHD Thin
and Light Laptop (16GB/512GB SSD/Windows 11 Home/MS Office H&S
2021/Iris® Xe Graphics/Backlit/Mineral Grey/1.7 Kg) 20VE00W4IH',
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-C x 2 (with Power), 1.35 kg, 17Z90P-G.AH85A2, Black)',
'Lenovo IdeaPad 5 Pro 11th Gen Intel Core i7 14 inches QHD IPS Thin
and Light Laptop (16GB/512GB SSD/Iris Xe Graphics/Windows 11/Office
2021/Backlit/300Nits/Storm Grey/1.41Kg), 82L3006YIN',
'Dell 15 (2021) Inspiron 5518 Intel Thunderbolt 4.0 i7-11390H 15.6

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Inches Notebook Computer (16GB, 1TB SSD, Windows 11 + MS Office 21, NVIDIA MX450 2GB, FHD Display, Silver Color, FPR + Backlit KB)',
 'Fujitsu UH-X 11th Gen Intel i7 Core 13.3 inches FHD IPS 400Nits Business Laptop (16GB/512GB SSD/Windows 10/Office/Iris Xe Graphics/Backlit Kb/ Fingerprint Reader/Black/0.878kg), 4ZR1D67596',
 'HP Pavilion x360 11th Gen Intel Core i7 14 inches FHD, IPS, Convertible Laptop (16 GB RAM/512GB SSD, B&O/Win 11 Home/Backlit keyboard/FPR/ Alexa-Built in/MS Office/Natural Silver/1.52 Kg) -14-dy1013TU',
 'ASUS TUF Gaming F15 (2021), 15.6" (39.62 cms) FHD 144Hz, Intel Core i7-11600H 11th Gen, 4GB RTX 3050 Graphics, Gaming Laptop (16GB/512GB SSD/Windows 10/Office 2019/Gray/2.3 Kg), FX566HCB-HN299TS',
 '(Refurbished) Dell Latitude E7470 Intel Core i7 6th Gen 14 inches Laptop /16 GB RAM/512 GB SSD/Windows 10 Pro/MS Office/HD Display/Integrated Graphics, 1.9 kg',
 'HP Pavilion 11th Gen Intel Core i7 Processor 15.6 inches FHD Gaming Laptop (16GB/512GB SSD/Windows 11/NVIDIA RTX 3050 Graphics/MS Office/Shadow Black & Ultra Violet/2.23Kg), 15-dk2096TX',
 'Lenovo IdeaPad Gaming 3 Intel Core i7 10th Gen 39.62 cm (15.6") FHD IPS 250Nits Gaming Laptop (8GB/512GB SSD/Win10/NVIDIA GTX 1650 4GB GDDR6 Graphics/120Hz/Onyx Black/2.2Kg), 81Y4019EIN',
 'MSI Modern 14, Intel i7-1195G7, 14" FHD IPS-Level 60Hz Panel Laptop (8GB/512GB NVMe SSD/Windows 10 Home/Nvidia MX450 2GB Graphics/Carbon Grey/1.3Kg), B11SBU-688IN',
 'AGB Octev GA-9009 15.6"Laptop (Intel Core i7-1165G7 11th Gen, 16GB RAM / 1TB SSD / Intel Iris Xe / MX 450 / Win 10 Pro / Aluminium Body',
 '(Refurbished) Dell Intel Core i7 6th Gen 14-Inch(35.56 cms) 1366 x 768 HD Laptop (16GB RAM /2TB HDD/Windows 10 Pro/MS Office/ Intel HD Integrated Graphics/ 1.5Kg,Black) Latitude E5470',
 'HP Envy x360 11th Gen Intel Core i7- 13.3-inch(33.8cm) FHD OLED Multi-touch Gorilla Glass 2-in-1 Laptop(16GB RAM/512GB SSD/Win 11/Intel Iris Xe Graphics/Alexa/B&O/FPR/Pen/MSO 2021/1.30kg), 13-bd1003TU',
 'Lenovo ThinkBook Yoga 14s Intel Core i7 11th Gen 14"(35.56cm) FHD IPS 300 nits 100% sRGB Dolby Vision 2-in-1 Touchscreen Laptop (16GB RAM/512GB SSD/Windows 10/MS Office/Active Pen/1.50 kg) 20WEA01EIH',
 'Dell 14 (2021) Intel i7-1195G7 14.0 inches FHD Display 2in1 Touch Screen Laptop (16GB/512GB SSD/Windows 10 + MS Office Backlit KB, FPR + Active Pen/Platinum Silver, Inspiron 5410, D560596WIN9S), 1.5kg',
 '(Refurbished) Life Digital Laptop 15.6-inch (39.62 cms) (Intel Core i7, 8GB RAM, 512GB SSD, Windows 10), ZED AIR CX7',
 'Infinix INBook X1 Pro Core i7 10th Gen - (16 GB/512 GB SSD/Windows 11 Home) XL12 Thin and Light Laptop (14 Inch, Starfall Grey, 1.48 kg)',
 'Lenovo Legion 5 11th Gen Intel i7-11800H 15.6" (39.62cm) FHD IPS Gaming Laptop (8GB/512GB SSD/Win11/Office 2021/NVIDIA RTX 3050Ti 4GB/120Hz/2.4Kg), 82JK007XIN + Legion Headset & 8K DPI Mouse',
 '(Refurbished) Dell 7480 Intel Core i7 14-Inch (35.56 cms) Full HD (1920 X 1080) Laptop (16 GB/256 SSD/Windows 10 Pro/Integrated_graphics/Black/2.16 Kg), TFI45',

```
'Samsung Galaxy Book2 Pro 360 Intel 12th Gen i7 EvoTM 33.78 cm
(13.3") Touchscreen 2-in-1 AMOLED Thin & Light Laptop (16 GB/512 GB
SSD/Windows 11/MSO Home & Student 2021/Silver/1.04Kg), NP930QED-
KB2IN',
'(Refurbished) Dell Latitude E6440 14 inches Laptop (Intel Core i7
4610M/16GB/512GB SSD/Windows 10 Pro/MS Office Pro 2019/Integrated
graphics), Metallic Grey, 1.9kg',
'Samsung Galaxy Book2 Pro Intel 12th Gen i7 EvoTM 39.62cm (15.6")
AMOLED Thin & Light Laptop (16 GB/512 GB SSD/Windows 11/MS Office Home
& Student 2021/Graphite/1.11Kg), NP950XED-KA1IN',
'(Refurbished) Dell Latitude E6430 14.1 Inch Business Laptop
computer, Intel Dual Core i7-3520M 2.9Ghz Processor, 16GB RAM, 240GB
SSD, DVD, RJ-45, HDMI, Windows 10 Professional',
'Acer Predator Helios 300 11th Gen Intel Core i9-11900H 15.6 inches
FHD IPS Display Gaming Laptop (16GB/1TB SSD/Windows 11 Home/6GB
Graphics/NVIDIA GeForce RTX 3060/300 Hz, Black, 2.3Kg) PH315-54',
'AGB Octev VR-1818 15.6"Laptop (Intel Core i7-1165G7 11th Gen, 32GB
RAM / 1TB SSD / Intel Iris Xe / MX 450 / Win 10 Pro / Aluminium Body']
```

```
###extracting product ratings
```

```
#### extracting product brand
```

```
brand_ratings=driver.find_elements_by_xpath("//i[@class='a-icon a-
icon-star a-star-3-5']")
len(brand_ratings)
```

```
1
```

```
brand_ratings
```

```
[<selenium.webdriver.remote.webelement.WebElement
(session="9082de2a7d5581de5f27c0db23a2df20", element="079dda35-155d-
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```
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```

```
rating=[]
for i in brand_ratings:
    rating.append(i.text)
len(rating)
rating

['', '', '', '', '', '', '', '', '']
```

```
##### extracting product price
brand_price=driver.find_elements_by_xpath("//span[@class='a-price-whole']")
len(brand_price)
```

30

brand_price

```
[<selenium.webdriver.remote.webelement.WebElement
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```



```

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4f98-89c6-69e696a6351c")>]

```

```

Price=[]
for i in brand_price:
    Price.append(i.text)
len(Price)
Price

```

```

['97,149',
'79,990',
'57,990',
'86,990',
'86,990',
'96,519',
'80,879',
'97,149',
'79,990',
'88,190',
'89,990',
'44,930',
'89,990',
'68,990',
'76,490',
'88,999',
'48,699',
'94,990',
'89,990',
'93,990',
'30,990',
'57,999',
'1,16,088',
'46,500',
'1,20,990',
'49,299',
'1,24,990',
'36,994',
'1,38,200',
'1,10,000']

```

```
laptop=pd.DataFrame()
laptop['Brand_name']=brand

laptop['Brand_Price']=Price
laptop[0:10]
```

	Brand_name	Brand_Price
0	Dell 15 (2021) Inspiron 5518 Intel Thunderbolt...	97,149
1	Fujitsu UH-X 11th Gen Intel i7 Core 13.3 inche...	79,990
2	ASUS VivoBook 14 (2021), 14-inch (35.56 cms) F...	57,990
3	HP Pavilion 14, 11th Gen Intel Core i7-16GB RA...	86,990
4	Lenovo ThinkBook 15 Intel 11th Gen Core i7 15....	86,990
5	LG Gram Intel Evo 11th Gen Core i7 17 inches U...	96,519
6	Lenovo IdeaPad 5 Pro 11th Gen Intel Core i7 14...	80,879
7	Dell 15 (2021) Inspiron 5518 Intel Thunderbolt...	97,149
8	Fujitsu UH-X 11th Gen Intel i7 Core 13.3 inche...	79,990
9	HP Pavilion x360 11th Gen Intel Core i7 14 inc...	88,190

```
#####9
import selenium
from selenium import webdriver
import pandas as pd
import warnings
warnings.filterwarnings('ignore')

driver=webdriver.Chrome(r"C:/Users/Lenovo/Downloads/
chromedriver_win32/chromedriver.exe")

url = "https://www.ambitionbox.com/"
driver.get(url)
```

```
#scraping the job-designation
search_desg=driver.find_element_by_xpath("/html/body/section[1]/div/
div[2]/form/input")
search_desg

<selenium.webdriver.remote.webelement.WebElement
(session="0e5834b6e0fb27ea2459129a63a01ad6", element="42c16aa2-99a5-
4ed6-b025-98b53a53157d")>

search_desg.send_keys("Data Scientist")
```

```
search_desg=driver.find_element_by_xpath("/html/body/div/div[2]/div[3]/div/div/div[6]")
search_btn.click()

#scraping the job-salaries/body/secti
search_desg=driver.find_element_by_xpath("/html/body/div[2]/nav/nav/a[4]")
search_desg

<selenium.webdriver.remote.webelement.WebElement
(session="a6fb0296f86a4ceb176199fef8231ea4", element="70756ffa-81d5-4bde-888b-2fdd63605115")>
```