

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

Requirement already satisfied: Selenium in c:\users\sony\anaconda3\lib\site-packages (4.8.3)

Requirement already satisfied: certifi>=2021.10.8 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (2022.9.14)

Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (1.26.11)

Requirement already satisfied: trio-websocket~=0.9 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.10.2)

Requirement already satisfied: trio~=0.17 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.22.0)

Requirement already satisfied: idna in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (3.3)

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

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Requirement already satisfied: pycparser in c:\users\sony\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->Selenium) (2.21)

Requirement already satisfied: h11<1,>=0.9.0 in c:\users\sony\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->Selenium) (0.14.0)

## Q2

```
In [19]: driver= webdriver.Chrome(r"C:\Users\Sony\Downloads\chromedriver.exe")
driver.get("https://www.amazon.in/")
```

```
In [20]: search= driver.find_element(By.XPATH, "/html/body/div[1]/header/div/div[1]/div[2]/div/f
search.send_keys("Guitar")
```

```
In [21]: search_button= driver.find_element(By.XPATH, "/html/body/div[1]/header/div/div[1]/div[2]
search_button.click()
time.sleep(5)
```

```
In [22]: product_urls=[]
start=0
end=3

for page in range(start,end):
    urls=driver.find_elements(By.XPATH, '//a[@class="a-link-normal s-underline-text s-u
    for store in urls:
        product_urls.append(store.get_attribute('href'))

    next_button= driver.find_element(By.XPATH, '//a[@class="s-pagination-item s-paginat
    next_button.click()
    time.sleep(5)
```

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

```
Out[23]: 160
```

```
In [31]: brand=[]
for url in product_urls:
    driver.get(url)
    time.sleep(3)

    try:
        brand_name= driver.find_element(By.XPATH, '//html/body/div[2]/div[2]/div[5]/div
        brand.append(brand_name.text)

    except NoSuchElementException:
        brand.append('-')
```

```
In [25]: price=[]
for url in product_urls:
    driver.get(url)
    time.sleep(2)

    try:
        prices= driver.find_element(By.XPATH, '/html/body/div[2]/div[2]/div[5]/div[3]/c
        price.append(prices.text)

    except NoSuchElementException:
        price.append('-')
```

```
In [26]: returns=[]
for url in product_urls:
    driver.get(url)
    time.sleep(2)

    try:
        return_ex= driver.find_element(By.XPATH, '/html/body/div[2]/div[2]/div[5]/div[3]')
        returns.append(return_ex.text)

    except NoSuchElementException:
        returns.append('-')
```

```
In [27]: delivery=[]
for url in product_urls:
    driver.get(url)
    time.sleep(2)

    try:
        delivery_exp= driver.find_element(By.XPATH, '/html/body/div[2]/div[2]/div[5]/div[3]')
        delivery.append(delivery_exp.text)

    except NoSuchElementException:
        delivery.append('-')
```

```
In [28]: available=[]
for url in product_urls:
    driver.get(url)
    time.sleep(2)

    try:
        availability= driver.find_element(By.XPATH, '/html/body/div[2]/div[2]/div[5]/div[3]')
        available.append(availability.text)

    except NoSuchElementException:
        available.append('-')
```

```
In [32]: len(brand), len(price), len(returns), len(delivery), len(available)
```

```
Out[32]: (160, 160, 160, 160, 160)
```

```
In [33]: df= pd.DataFrame({'Brand': brand, 'Price': price, 'Return/Exchange': returns, 'Expected Delivery': delivery})
df
```

Out[33]:

	Brand	Price	Return/Exchange	Expected Delivery	Availability	Product URL
0	Kadence	6,899	7 days Replacement	Wednesday, 3 May	In stock	<a href="https://www.amazon.in/sspa/click?ie=UTF8&amp;spc=M...">https://www.amazon.in/sspa/click?ie=UTF8&amp;spc=M...</a>
1	Kadence	4,999	7 days Replacement	Tuesday, 2 May	In stock	<a href="https://www.amazon.in/sspa/click?ie=UTF8&amp;spc=M...">https://www.amazon.in/sspa/click?ie=UTF8&amp;spc=M...</a>
2	Medellin	1,949	7 days Replacement	Wednesday, 3 May	In stock	<a href="https://www.amazon.in/sspa/click?ie=UTF8&amp;spc=M...">https://www.amazon.in/sspa/click?ie=UTF8&amp;spc=M...</a>
3	-	-	-	-	-	<a href="https://www.amazon.in/sspa/click?ie=UTF8&amp;spc=M...">https://www.amazon.in/sspa/click?ie=UTF8&amp;spc=M...</a>
4	JUAREZ	1,999	7 days Replacement	Tuesday, 2 May	In stock	<a href="https://www.amazon.in/Juarez-Acoustic-Cutaway-...">https://www.amazon.in/Juarez-Acoustic-Cutaway-...</a>
...	...	...	...	...	...	...
155	Fender	13,665	7 days Replacement	Sunday, 30 April	-	<a href="https://www.amazon.in/Fender-310005532-Stratoc...">https://www.amazon.in/Fender-310005532-Stratoc...</a>
156	DOMENICO	949	7 days Replacement	Sunday, 30 April	In stock	<a href="https://www.amazon.in/DOMENICO-4-String-Acoust...">https://www.amazon.in/DOMENICO-4-String-Acoust...</a>
157	Pluto	6,900	7 days Replacement	Tuesday, 2 May	In stock	<a href="https://www.amazon.in/Pluto-HW41CL201NAT-HW41C...">https://www.amazon.in/Pluto-HW41CL201NAT-HW41C...</a>
158	Gibz's guitar	6,250	7 days Replacement	Sunday, 30 April	Only 1 left in stock	<a href="https://www.amazon.in/Gibzs-G-39-Glossy-Acoust...">https://www.amazon.in/Gibzs-G-39-Glossy-Acoust...</a>
159	-	-	-	-	-	<a href="https://www.amazon.in/Yamaha-TRBX174-TRBX-Elec...">https://www.amazon.in/Yamaha-TRBX174-TRBX-Elec...</a>

160 rows × 6 columns

In [34]: `driver.close()`

## Q3

In [35]: `!pip install Selenium`

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```
In [47]: import selenium
import pandas as pd
from selenium import webdriver
import warnings
warnings.filterwarnings('ignore')
import time
from selenium.webdriver.common.by import By
from selenium.common.exceptions import NoSuchElementException, StaleElementReferenceEx
import requests
```

```
In [39]: driver= webdriver.Chrome(r"C:\Users\Sony\Downloads\chromedriver.exe")
```

```
In [40]: driver.get("https://images.google.com/")
```

```
In [43]: search= driver.find_element(By.XPATH, '/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]')
search.send_keys('fruits')
```

```
In [46]: search_button= driver.find_element(By.XPATH, '/html/body/div[1]/div[3]/form/div[1]/div[1]')
search_button.click()
```

```
In [48]: image=[]

img= driver.find elements(By.XPATH,'//div[@class=" bRMDJf isIir"]')
```

```

for i in img[0:10]:
    images= i.get_attribute('src')
    if images is not None:
        if (images[0:4]=='href'):
            image.append(source)

```

```

In [54]: for i in range(len(image)):
        if i>10:
            breakBy.XPATH,
        print("Downloading images".format(i,10))
        response= requests.get(image[i])
        file= open(r"C:\Users\Sony\Desktop"+str(i)+".jpg", "wb")
        file.write(response.content)

```

```

In [57]: driver.close()

```

## Q4

```

In [58]: !pip install Selenium

```

```

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```

```
In [2]: import selenium
import pandas as pd
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.common.exceptions import NoSuchElementException, StaleElementReferenceEx
import warnings
warnings.filterwarnings('ignore')
import time
import requests
```

```
In [3]: driver= webdriver.Chrome(r"C:\Users\Sony\Downloads\chromedriver.exe")
driver.get("https://www.flipkart.com/")
```

```
In [4]: cancel_login= driver.find_element(By.XPATH, '/html/body/div[2]/div/div/button')
cancel_login.click()
```

```
In [5]: product= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[1]/div[1]/div[2]/div[2]')
product.send_keys('smartphone')
search= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[1]/div[1]/div[2]/div[2]')
search.click()
```

```
In [6]: product_url=[]

url= driver.find_elements(By.XPATH,'//a[@class="_1fQZEK"]')
for store in url:
    product_url.append(store.get_attribute('href'))
```

```
In [7]: len(product_url)
```

Out[7]: 24

```
In [8]: phone_name=[]
        for url in product_url:
            driver.get(url)
            time.sleep(2)

            try:
                phone= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]')
                phone_name.append(phone.text)

            except NoSuchElementException:
                phone_name.append('-')
```

```
In [9]: color=[]
        for url in product_url:
            driver.get(url)
            time.sleep(2)

            try:
                colors= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[1]')
                color.append(colors.text)

            except NoSuchElementException:
                color.append('-')
```

```
In [22]: ram=[]
for url in product_url:
    driver.get(url)
    time.sleep(2)

    try:
        phone_ram= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/c
        ram.append(phone_ram.text)

    except NoSuchElementException:
        ram.append('-')
```

```
In [11]: rom=[]
for url in product_url:
    driver.get(url)
    time.sleep(2)

    try:
        storage_rom= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]
        rom.append(storage_rom.text)

    except NoSuchElementException:
        rom.append('-')
```

```
In [12]: p_camera=[]
for url in product_url:
    driver.get(url)
    time.sleep(2)

    try:
        cam1= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]
        p_camera.append(cam1.text)

    except NoSuchElementException:
        p_camera.append('-')
```

```
In [13]: s_camera=[]
for url in product_url:
    driver.get(url)
    time.sleep(2)

    try:
        cam2= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[2]
        s_camera.append(cam2.text)

    except NoSuchElementException:
        s_camera.append('-')
```

```
In [14]: size=[]
for url in product_url:
    driver.get(url)
    time.sleep(2)

    try:
        d_size= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[3]/div[1]/div[
        size.append(d_size.text)
```



```
except NoSuchElementException:
    size.append('-')
```

```
In [15]: battery=[]
         for url in product_url:
             driver.get(url)
             time.sleep(2)

         try:
             b_capacity= driver.find_element(By.XPATH, '/html/body/div[1]/div/div[3]/div[1],
             battery.append(b_capacity.text)

         except NoSuchElementException:
             battery.append('-')
```

```
In [16]: price=[]  
for url in product_url:  
    driver.get(url)  
    time.sleep(2)  
  
    try:  
        prices= driver.find_element(By.XPATH,'/html/body/div[1]/div/div[3]/div[1]/div[1]  
        price.append(prices.text)  
  
    except NoSuchElementException:  
        price.append('-')
```

```
In [23]: len(phone_name), len(color), len(ram), len(rom), len(p_camera), len(s_camera), len(size)
```

```
Out[23]: (24, 24, 24, 24, 24, 24, 24, 24, 24)
```

```
In [24]: df= pd.DataFrame({'Smartphone Name':phone_name, 'Color':color, 'RAM':ram, 'Storage ROM':storage_rom})
df
```

Out[24]:

	Smartphone Name	Color	RAM	Storage ROM	Primary Camera	Secondary Camera	Display Size	Battery Capacity	Price	
0	Galaxy F13	Nightsky Green							₹9,699	<a href="https://www">https://www</a>
1	Galaxy F13	Waterfall Blue							₹9,699	<a href="https://www">https://www</a>
2	Galaxy F13	Sunrise Copper							₹9,699	<a href="https://www">https://www</a>
3	Galaxy F13	Waterfall Blue							₹10,699	<a href="https://www">https://www</a>
4	C50	Royal Blue							₹6,499	<a href="https://">https://</a>
5	C50	Country Green							-	<a href="https://">https://</a>
6	Galaxy F13	Nightsky Green							₹10,699	<a href="https://www">https://www</a>
7	M4 5G	Power Black							₹11,999	<a href="https://">https://</a>
8	10	Pacific Blue							₹9,999	<a href="https://">https://</a>
9	-	-	-	-	-	-	-	-	₹5,999	<a href="https://v">https://v</a>
10	-	-	-	-	-	-	-	-	₹5,999	<a href="https://v">https://v</a>
11	10	Midnight Black							₹9,999	<a href="https://">https://</a>
12	-	-	-	-	-	-	-	-	₹7,499	<a href="https://v">https://v</a>
13	-	-	-	-	-	-	-	-	₹9,999	<a href="https://v">https://v</a>
14	-	-	-	-	-	-	-	-	₹9,999	<a href="https://v">https://v</a>
15	-	-	-	-	-	-	-	-	₹9,999	<a href="https://v">https://v</a>
16	-	-	-	-	-	-	-	-	₹7,499	<a href="https://v">https://v</a>
17	HOT 30i	Mirror Black							₹8,399	<a href="https://">https://</a>
18	T2x 5G	Aurora Gold							₹12,999	<a href="https://www">https://www</a>
19	T2x 5G	Glimmer Black							₹15,999	<a href="https://www">https://www</a>
20	T2x 5G	Marine Blue							₹12,999	<a href="https://www">https://www</a>

	Smartphone Name	Color	RAM	Storage ROM	Primary Camera	Secondary Camera	Display Size	Battery Capacity	Price	
21	T2x 5G	Glimmer Black							₹13,999	<a href="https://www">https://www</a>
22	T2x 5G	Aurora Gold							₹13,999	<a href="https://www">https://www</a>
23	T2x 5G	Marine Blue							₹13,999	<a href="https://www">https://www</a>

```
In [25]: driver.close()
```

## Q5

```
In [26]: !pip install Selenium
```

```
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Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.1.1)
Requirement already satisfied: attrs>=19.2.0 in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (21.4.0)
Requirement already satisfied: wsproto>=0.14 in c:\users\sony\anaconda3\lib\site-packages (from trio-websocket~=0.9->Selenium) (1.2.0)
Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\sony\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->Selenium) (1.7.1)
Requirement already satisfied: pycparser in c:\users\sony\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->Selenium) (2.21)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\sony\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->Selenium) (0.14.0)
```

```
In [48]: import selenium
import pandas as pd
from selenium import webdriver
from selenium.webdriver.common.by import By
```

```
from selenium.common.exceptions import NoSuchElementException, StaleElementReferenceEx
import warnings
warnings.filterwarnings('ignore')
import time
import requests
from bs4 import BeautifulSoup
import re
```

```
In [38]: driver= webdriver.Chrome(r"C:\Users\Sony\Downloads\chromedriver.exe")
driver.get("https://www.google.com/maps")
```

```
In [39]: search= driver.find_element(By.XPATH,'/html/body/div[3]/div[9]/div[3]/div[1]/div[1]/div[1]')
search.send_keys('Delhi')
search_button= driver.find_element(By.XPATH,'/html/body/div[3]/div[9]/div[3]/div[1]/div[1]/div[1]')
search_button.click()
```

```
In [41]: url_string= driver.current_url
print("URL Extracted: ",url_string)
```

URL Extracted: <https://www.google.com/maps/place/Delhi/@28.6442873,76.7635532,10z/data=!3m1!4b1!4m6!3m5!1s0x390cfd5b347eb62d:0x37205b715389640!8m2!3d28.7040592!4d77.1024902!16zL20vMD1mMDc>

```
In [51]: lat_long= re.findall(r'@(.*)data',url_string)
          lat_long
```

```
Out[51]: ['28.6442873,76.7635532,10z/']
```

```
In [60]: list1=lat_long[0]
```

```
Out[60]: '28.6442873,76.7635532,10z/ '
```

```
In [65]: latitude= list1.split(',')[0]
          print(latitude)
```

28.6442873

```
In [66]: longitude= list1.split(',')[1]
          print(longitude)
```

76.7635532

In [ ]:

## Q6

```
In [69]: !pip install Selenium
```

```
Requirement already satisfied: Selenium in c:\users\sony\anaconda3\lib\site-packages (4.8.3)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.10.2)
Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (1.26.11)
Requirement already satisfied: trio~=0.17 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.22.0)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (2022.9.14)
Requirement already satisfied: cffi>=1.14 in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.15.1)
Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.1.1)
Requirement already satisfied: attrs>=19.2.0 in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (21.4.0)
Requirement already satisfied: async-generator>=1.9 in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.10)
Requirement already satisfied: sniffio in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.2.0)
Requirement already satisfied: idna in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (3.3)
Requirement already satisfied: sortedcontainers in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (2.4.0)
Requirement already satisfied: outcome in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.2.0)
Requirement already satisfied: wsproto>=0.14 in c:\users\sony\anaconda3\lib\site-packages (from trio-websocket~=0.9->Selenium) (1.2.0)
Requirement already satisfied: PySocks!=1.5.7,<2.0,>=1.5.6 in c:\users\sony\anaconda3\lib\site-packages (from urllib3[socks]~=1.26->Selenium) (1.7.1)
Requirement already satisfied: pycparser in c:\users\sony\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->Selenium) (2.21)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\sony\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->Selenium) (0.14.0)
```

```
In [70]: import selenium
import pandas as pd
from selenium import webdriver
import warnings
warnings.filterwarnings('ignore')
from selenium.webdriver.common.by import By
from selenium.common.exceptions import NoSuchElementException, StaleElementReferenceEx
import time
import requests
```

```
In [125... driver= webdriver.Chrome(r"C:\Users\Sony\Downloads\chromedriver.exe")
driver.get("https://www.digit.in/")
```

```
In [126... best_laptop= driver.find_element(By.XPATH,'/html/body/div[7]/div/div[2]/div[2]/div[4],  
best_laptop.click()
```

```
In [132... page_url=driver.current_url
print(page_url)

https://www.digit.in/top-products/best-gaming-laptops-40.html
```

```
In [139... processor=[  
try:
```

```
pro = driver.find_element(By.XPATH, '/html/body/div[9]/div[1]/div[3]/div[2]/div[1]/div[1]')
processor.append(pro.text)

#ept NoSuchElementException:
processor.append('-')
```

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

Out[140]: **1**

In [141... processor

```
Out[141]: ['12th Gen Intel Core i9-12900HX 16 core processor']
```

In [ ]:

In [ ]:

## Q7

```
In [142... !pip install Selenium
```

Requirement already satisfied: Selenium in c:\users\sony\anaconda3\lib\site-packages (4.8.3)

Requirement already satisfied: trio~=0.17 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.22.0)

Requirement already satisfied: certifi>=2021.10.8 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (2022.9.14)

Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (1.26.11)

Requirement already satisfied: trio-websocket~=0.9 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.10.2)

Requirement already satisfied: cffi>=1.14 in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.15.1)

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

Requirement already satisfied: attrs>=19.2.0 in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (21.4.0)

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

Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.1.1)

Requirement already satisfied: sortedcontainers in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (2.4.0)

Requirement already satisfied: outcome in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (1.2.0)

Requirement already satisfied: idna in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (3.3)

Requirement already satisfied: wsproto>=0.14 in c:\users\sony\anaconda3\lib\site-packages (from trio-websocket~=0.9->Selenium) (1.2.0)

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

Requirement already satisfied: pycparser in c:\users\sony\anaconda3\lib\site-packages (from cffi>=1.14->trio~=0.17->Selenium) (2.21)

Requirement already satisfied: h11<1,>=0.9.0 in c:\users\sony\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->Selenium) (0.14.0)

```
In [143... import selenium
import pandas as pd
from selenium import webdriver
import warnings
warnings.filterwarnings('ignore')
from selenium.webdriver.common.by import By
from selenium.common.exceptions import NoSuchElementException, StaleElementReferenceException
import time
import requests
```

```
In [146... driver= webdriver.Chrome(r"C:\Users\Sony\Downloads\chromedriver.exe")
driver.get("https://www.forbes.com/")
```

```
In [148... nav= driver.find_element(By.XPATH, '/html/body/div[1]/header/nav/div[1]/div[1]/div/div')
nav.click()
```

```
In [150... b_icon = driver.find_element(By.XPATH, '/html/body/div[1]/header/nav/div[1]/div[1]/div/div')
b_icon.click()
```

```
In [151... world_b= driver.find_element(By.XPATH, '/html/body/div[1]/header/nav/div[1]/div[1]/div/div')
world_b.click()
```

In [180...

```

rank=[]
name=[]
net_worth=[]
age=[]
citizenship=[]
source=[]
industry=[]

ranking= driver.find_elements(By.XPATH,'//div[@class="Table_rank___YBhk Table_dataCell']
for store in ranking:
    ranks=store.text
    rank.append(ranks)

B_name= driver.find_elements(By.XPATH,'//div[@class="Table_dataCell__2QCve"]')
for store in B_name[0:800:4]:
    names=store.text
    name.append(names)

worth= driver.find_elements(By.XPATH,'//div[@class="Table_netWorth___L4R5 Table_dataCe
for store in worth:
    n_worth=store.text
    net_worth.append(n_worth)

b_age= driver.find_elements(By.XPATH,'//div[@class="Table_dataCell__2QCve"]')
for store in b_age[1:800:4]:
    ages=store.text
    age.append(ages)

cship= driver.find_elements(By.XPATH,'//div[@class="TableRow_cell__db-hv Table_cell__r
for store in cship[4:1400:7]:
    cships=store.text
    citizenship.append(cships)

b_source= driver.find_elements(By.XPATH,'//div[@class="Table_dataCell__2QCve"]')
for store in b_source[2:800:4]:
    sources=store.text
    source.append(sources)

b_industry= driver.find_elements(By.XPATH,'//div[@class="Table_dataCell__2QCve"]')
for store in b_industry[3:800:4]:
    indus=store.text
    industry.append(indus)

```

In [181...

```
len(rank),len(name),len(net_worth),len(age),len(citizenship),len(source),len(industry)
```

Out[181]:

```
(200, 200, 200, 200, 200, 200, 200)
```

In [183...

```
df=pd.DataFrame({'Rank':rank, 'Name':name, 'Net Worth':net_worth, 'Age':age, 'Citizenship':cship, 'Source':source, 'Industry':industry})
df
```



Out[183]:

	Rank	Name	Net Worth	Age	Citizenship	Source	Industry
0		Bernard Arnault & family	\$211 B	74	France	LVMH	Fashion & Retail
1		Elon Musk	\$180 B	51	United States	Tesla, SpaceX	Automotive
2		Jeff Bezos	\$114 B	59	United States	Amazon	Technology
3		Larry Ellison	\$107 B	78	United States	Oracle	Technology
4		Warren Buffett	\$106 B	92	United States	Berkshire Hathaway	Finance & Investments
...	...	...	...	...	...	...	...
195		Jin Baofang	\$9.6 B	70	China	Solar panels	Energy
196		Luo Liguu & family	\$9.6 B	67	China	Chemicals	Manufacturing
197		Marijke Mars	\$9.6 B	58	United States	Candy, pet food	Food & Beverage
198		Pamela Mars	\$9.6 B	62	United States	Candy, pet food	Food & Beverage
199		Valerie Mars	\$9.6 B	64	United States	Candy, pet food	Food & Beverage

200 rows × 7 columns

In [184...

```
driver.close()
```

Q8

In [185...

```
!pip install Selenium
```

Requirement already satisfied: Selenium in c:\users\sony\anaconda3\lib\site-packages (4.8.3)

Requirement already satisfied: certifi>=2021.10.8 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (2022.9.14)

Requirement already satisfied: trio~0.17 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.22.0)

Requirement already satisfied: urllib3[socks]~1.26 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (1.26.11)

Requirement already satisfied: trio-websocket~0.9 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.10.2)

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

Requirement already satisfied: outcome in c:\users\sony\anaconda3\lib\site-packages (from trio~0.17->Selenium) (1.2.0)

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

Requirement already satisfied: cffi>=1.14 in c:\users\sony\anaconda3\lib\site-packages (from trio~0.17->Selenium) (1.15.1)

Requirement already satisfied: exceptiongroup>=1.0.0rc9 in c:\users\sony\anaconda3\lib\site-packages (from trio~0.17->Selenium) (1.1.1)

Requirement already satisfied: sortedcontainers in c:\users\sony\anaconda3\lib\site-packages (from trio~0.17->Selenium) (2.4.0)

Requirement already satisfied: attrs>=19.2.0 in c:\users\sony\anaconda3\lib\site-packages (from trio~0.17->Selenium) (21.4.0)

Requirement already satisfied: idna in c:\users\sony\anaconda3\lib\site-packages (from trio~0.17->Selenium) (3.3)

Requirement already satisfied: wsproto>=0.14 in c:\users\sony\anaconda3\lib\site-packages (from trio-websocket~0.9->Selenium) (1.2.0)

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

Requirement already satisfied: pycparser in c:\users\sony\anaconda3\lib\site-packages (from cffi>=1.14->trio~0.17->Selenium) (2.21)

Requirement already satisfied: h11<1,>=0.9.0 in c:\users\sony\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~0.9->Selenium) (0.14.0)

```
In [186... import selenium
import pandas as pd
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.common.exceptions import NoSuchElementException, StaleElementReferenceException
import warnings
warnings.filterwarnings('ignore')
import time
import requests
```

```
In [190... driver= webdriver.Chrome(r"C:\Users\Sony\Downloads\chromedriver.exe")
driver.get("https://www.youtube.com/")
```

```
In [191... video= driver.find_element(By.XPATH, '/html/body/ytd-app/div[1]/ytd-page-manager/ytd-br
video.click()
```

```
In [192... for _ in range(1000):
    driver.execute_script("window.scrollTo(0,1000)")
```

```
In [197... comments=[]
upvote=[]
time=[]
```

```
comment= driver.find_elements(By.XPATH,'//div[@class="style-scope ytd-expander"]')
for store in comment[0:500]:
    com=store.text
    comments.append(com)

likes= driver.find_elements(By.XPATH,'//span[@class="style-scope ytd-comment-action-bu
for store in likes[1:1000:2]:
    like=store.text
    upvote.append(like)

timing= driver.find_elements(By.XPATH,'//a[@class="yt-simple-endpoint style-scope yt-f
for store in timing[0:500]:
    timings=store.text
    time.append(timings)
```

In [198... len(comments), len(upvote), len(time)

Out[198]: (372, 370, 422)

In [199... comments

```

Out[199]: [' ',
            ' ',
            'I was severing to watch, feeling emotional to see salman like this.....what a ma
n....huge hugs respect for u salman.....we love u alot..',
            "He speaks so well and calmly He's the BESTTT",
            '"When you go on a war with yourself, you hardly need to apologize outside." What a
deep thought and statement ',
            'Why Salman khan doesn't getting recognition he deserves he still believes in faith
',
            'All time favourite megastar Salman Khan... Show must go on ',
            "You can hate him but you can't ignore him. Box-office Super Star",
            'A man with thousands of haters and billions of fans across the world ',
            'Salman looks so handsome and fit at 57. God bless him, wishes for upcoming films an
d stay evergreen.',
            'It was a pleasure to be in the audience and watch him live!',
            'One Sun ,One Moon.....and there is Only One Salman khan...',
            'Hats Off To Rajat Sharma Sir For Continue Standing 1 Hour And Ask Beautiful Questio
ns In front of Audience ',
            'The saddest part is Lion getting little Old. Salman khan is such amazing person you
will find anyone in this era. I love him because he very honest purest humble and dow
n to earth as person. I have learned many things in my maturity by seeing his life up
s down journey. \nSalute this person having in my era',
            'salman sir 57yrs age ke hai aur itna handsome aur young lag raha hai \nEdit: kuchlo
g bolte h ki paisa hai toh mumkin hai toh unhe bata du ki baki actors ke v paise h au
r ambani,adani inlogoke v paise h',
            'सलमान सर बूढ़े हो रहे हैं ये बात दिल को हज़म नहीं हो रही भाई जान को प्यार ने बहोत सताया है. . आप
हमेशा खुश रहे सर और खुश भी',
            'There was, is and never will be someone like Salman ',
            'He most humble and down to earth person ',
            'This guy is such a Gem man....\n\nBhaijaan all the best',
            "Bhhad mai gya reaction... For myself SULTAN IS NOT A CINEMA FOR ME , IT'S A EMOTION
FOR ME \u200d\u200d\u200d",
            'Very emotional, sensitive and down to earth super star',
            'We all make mistakes but the best part is to learn from them i think Salman has lea
rned alot now he's very mature than before so why can't we forgive people too we are
humans we make mistakes so why to make anyone remember his mistakes again and again p
lease be kind live and let live',
            "Salman sir's maturity over the years increased significantly.respect",
            'This is ended very soon I can watch him talking for hours and hours ',
            'The best thing about Salman Bhai is his love and respect for his colleagues and co
stars like Aamir Khan, Shah Rukh Khan & Sanjay Dutt ',
            'Proud of you Salmaan ji \nPlease take care of yourself..... Bhagwan ji always prote
ct you from evil eyes. and always blessed you with good health and happiness in your
life....We all loves you by heart .',
            'बहुत दमदार इंटरव्यू और बहुत शानदार इंटरव्यू रहा सलमान का यह',
            "The reason Bhai is my favourite actor of all time is that he is honest, kind hearte
d and really a generous person. Doesn't matter what are the reviews on Bhai film I wi
ll always support and watch his film. Love from Pakistan",
            'I like his attitude & routine of life. The way he is everything maintained very, ve
ry well. Hats off, man.',
            'When you see salman bhai on screen or off screen he gives positive vibes only ',
            'Fantastic interview salman with a lot of maturity !!! Proud to be a fan ',
            'Hindustan ki shan Salman Khan ',
            'Kisi Ki Bhai Kisi Ki Jaan Jo Hai Bharat Ka ShaanIN',
            'Most humble person love your so much Salman sir',
            "By the end of this interview I've realised that SK is actually a smart and very int
elligent person and he knows his value in the industry and how to sell to himself.\nH
e also appreciates talent and gives credit where its due.",
            "It's amazing to see as to how much Salman has mellowed down over the years. Nobody
could have envisioned this version of his about 20 years ago. This maturity is wonder

```

ful to see. I guess life does this to all of us, and it's a good thing. I just hope that he exercises this same level of maturity and wisdom in selecting his movie scripts as well. He should learn from the history of superstars like Rajesh Khanna, Dharmendra, Amitabh Bachchan and Mithun Chakraborty who had started slipping due to mediocre films. All The Very Best to him for Tiger 3 and, hopefully, better films in the future. :)",

'He is the most misunderstood person out there. Look at the way he is responding, I felt emotional the way his thoughts changed over the years. Can't see him alone like that. We are there with you bhai forever & we love you till eternity!!!',

'One of the most candid and best interviews of Salman',

"the purest human being i've ever seen, he speaks straight from his heart and that's a rare quality in today's world \nhis fan forever ",

'After all that negativity by media now praising him for his success Bhai earns a lot of respect ',

'We love you Salman Sir..',

'"Womens body is more precious, so its better to see them when its covered " \nSalman Khan a true gentleman and great statement by our very own superstar.',

'Something has changed the solitudes the politeness the mature salmaaam',

'Great Interview \nSalman Khan Sabka bhai Sabki Jaan hai...!! ',

'Excellent...veey soothing interview ..\nVery comfortable and so sincerly SALMAN KHAN HAS ANSWERED...\nRAJAT SHARMA is very found of Salman..this shows clearly shows it..\nCongrats INDIA TV ,RAJAT JEE, SALMAN SIR AND ALL THE AUDEIENCES ...',

'This man is legend himself \nThe way he was replying with the calmness love it ',

'The more success he get the more humble he gets',

'I love you so much salman bhai \n\nWe are big fan of you, \nYou are completely family man ',

'He made my Monday going to the gym now ',

'Sher Purana Hai Par Jalwa Wahi Hai ',

'1:05:56 says it all what kind of a soul he is',

"He is really down to earth and calm person that's why he has positive vibes ",

'best Interview of Salman He is Really a Gem ',

'The best thing of salman khan is that he speak hindi in media which shows that he is very down to earth',

'He is a gem...an example of true secularism Bharat ki shaan Salman Khan',

'The Man With Golden Heart\n',

'Look at the calmness in his voice.',

"Not only looks but Salman's moral character is also commendable ",

"1:24 - very wise comment...\n11:08 - very wise self-analysis...\n26:57 - really a witty comment... 'पठान जिंदा है'",

'The aim of Sant Rampal Ji Maharaj Ji is to make India a golden bird. Where people of all religions and castes live with love and brotherhood, where everyone is happy, everyone gets equal justice, where no one is exploited',

"Women's reaction when Salman sir says inti Khushi mujhe nahi chahiye ",

'That call true friend ....when he says no I m not the main person who hit the movie of shahrukh ..he is superstar love u salman',

'SALMAN KHAN SIR BEST HUMBLE INTERVIEW ',

'Salman Khan is that diamond of the world which even the biggest billionaire cannot buy.',

'His innocence ',

'Salman khan is the jan of whole world especially mine without salman khan life is nothing.May ALLAH bless him always',

"My all'time fevert Salman Khan",

'What a man he is....Pure gold heart man',

'A man with golden heart ',

'So humble, kind and always available to help other..... Forgive the person if he changed.... Be the kind hearted @threatening people\nLove as a human you are\nLoads and loads of respect for you....',

'Yaar kuch bhi kaho Salman jesa duniya me pyara koi ni h ....itna pyara Dil itni pyare har quality Salman sir me h Allah Pak sir ko hifazat aata kre enko Jo bhi galat ni gah se dekhe Allah unki life me andhera bhar de',

'Salman and shrukh 2 super star all time heroes of bollywood',  
 'You can hate him love him but can't ignore him true megastar Salman bhai ',  
 'This was very impressive...kudos to rajat sir, Salman sir and whole team',  
 'Salman ,shahrukh, amir ,ajay , akshay who make our childhood and young age cheerfu  
 l',  
 'Loads of Love to Salman bhaijaan! Wish him all the success in the world!',  
 'The man of the golden heart, the big brother of all, the humble man of humanity, th  
 e supporter of all, he is the beloved of millions, the emperor of the masses, the sul  
 tan of hearts, and the owner of the largest fan base in the world, not out of nowher  
 e, but because he Loved on a personal level before the artistic, may God protect him  
 and always take care of him, the sultan of hearts, the owner of the attractiveness th  
 at all of India sees, the king of the box office ',  
 'India's Biggest Megastar Salman Khan ',  
 'Salman bhai ka soch best h yaar aur presently yahi aise actor h jinki maximum movie  
 s hum family ke sath dekh sakte h',  
 'The man with golden heart ',  
 'He is becoming his better version ! like aging like a fine wine !! ',  
 'Most secured Superstar of Indian Cinema ',  
 'Ye sabse best interview tha .. isme bhayi ekdam saant tarike se har dil ki bat naya  
 kr rhe.. jo bhi ho he's a golden heart mam",  
 'Biggest megastar Salman Khan ',  
 'What a man his charm aura persona this not gone repeat in any star golden heart lov  
 e you bhai ',  
 'mene aaj se phel salman sir ka aisa interview kbhi nhi dekha he is looking, talking  
 so humble ..... love u sir',  
 'Such a down to earth n humble person ever ',  
 'Salute to Salman bhai ... Really true reply with all heart',  
 'What a handsome hero. At 57 no one can be so much fit and handsome',  
 'सल्लू भाई द ग्रेट मैन ,,,,कोई हिंदू मुसलमान की बात नहीं करते हैं, सिर्फ दिलों को जोड़ने की बात  
 करते हैं,,, , सलमान भाई,,, यू आर ग्रेट,,, वी लव यू,,',  
 'Salman is such a being human and such a nice person and human being is always respe  
 ct women one of the best man in the industry',  
 'What a guy love to see in this way lots of learning from this interview thank you s  
 ir for bringing @Salman khan he is my inspiration great personality ',  
 'My inspiration Salman Khan bhaijaan ',  
 'Yeh banda sach me bahut sahi hai yr ... Love you Salman Sir',  
 'Amazing interview....love you megastar Salman Bhijaan .',  
 'Duniya ki mohabbat ek taraf.... Salman Bhai ki mohabbat ek taraf ',  
 'U R Great Salman Sir ',  
 'Without rajat sharma aap ki Adalat is nothing',  
 'Always get blamed for no reason. Still he dint give excuses. What a man. Salman ',  
 'Always Salman sir Lovely girl Shehnaaz ',  
 'Real Megastar of Indian Cinema Salman Bhai.',  
 'Best episode ever \nSalman Gurudev ',  
 'Salman Khan truly is the king of Bollywood with an unwavering fanbase that stands b  
 y him through thick and thin. God continue to bless him and his loyal fans..',  
 'Kitta pyaara episode h yaar',  
 'The way he explain his experience he clear that in a decent way one of the finest a  
 ctor in the world. Hope bhaijaan will have more great future that he is living ahead  
 y ',  
 'He is inspirational Personality today for youths ;will be tommorow and forever .. l  
 ove you Salman Bhaijaan!!',  
 'You can ignore Bollywood but you cannot ignore Salman Khan',  
 'He is not only a actor\nHe is an emotion ',  
 'He really cares for shehnaaz yar and also she is his all time favourite ',  
 'Salman Khan Jem of our industry Take care Bhai n always be safe we love u a lot',  
 'Rajat ji , Loved this interview so much bring such more session with salman sir an  
 d others..',  
 'He does not need dialouge bcz he speaks from the heart as it is',  
 'Bilkul hi alag salman khan nazar aa rhe hai ye toh , jo ajtk dkha movies interview

sb kuch usse bilkul alag, ekdum cool calm funny egoless Or what not. I am really admiring him',

'What an episode wow we really love u bhaijaan ',

'Ye show scripted hi kyu na ho , lekin Salman bhai ka interview hamesha best rehta hai Ek motivation milta hai hum jaise single logo ke liye ki bhai kese akele me itna khush rehte hai aur Maa baap ka name Roshan karte hai Love you bhaijaan',

"It's important to acknowledge that every individual has the right to decide what is comfortable and appropriate for their own body and clothing choices. While modesty can be a personal preference or cultural value for some people, it's not necessarily an objective standard for determining the value or worth of a person. Moreover, a person's worth and value should not be based on their physical appearance or how much of their body is covered. It's important to promote body positivity and encourage respect for all individuals, regardless of their clothing choices.",

'Salmaan bhai...,is an Inspiration for Indian youth....such a great human being',

'पहली बार आप की अदालत का एपिसोड पूरा देखा हूँ ',

'Salman Khan is more familiar with court than Rajat sharma ',

"Yrr salman really very humble man.. he defends all his Girlfriends ... Lot's of love.. bhai",

'Biggest Superstar Of Indian Cinema For a Reason ',

'Such a genuine and ok pure personality. ',

'salman interview always break all records',

'A true gentleman with a great heart\nBest ever interview by SK',

'I never like him before personally. I like big b but after seeing this. I like him very much. Down to earth person.',

"People's Man in true sense take care of everyone and think and analyses about them He tells whats in his heart to the face Evolved over the year...More mature,more selective,Indeed Fearless , self made biggest megastar of the nation ",

'Golden heart man in the world only Salman sir , search for the Google only Salman sir proud of you sir love u sir..',

'शुक्रिया इतना प्यार देने के लिए सलमान खान भाई को',

"Best thing of Salman his cute smile \n\nWorld's best smile ever ",

'Salman Khan is just awesome.. Very Polite very calm.. Masha Allah may Allah bless him always..',

'THE Sultan of bollywood king of boxoffice dabang khan Tiger of bollywood blockbuster khan bigeast Superstar megastar in indian cinema love You Salman khan from Pakistan fans ',

'Always Salman Sir Shehnaaz ',

'Salman is the most hardworking and talented actor,he is always working for poor people,man with golden heart king of Bollywood, king of box office',

'how come he has become so polite and humble suddenly nowadays \nafter death threat',

'Dil khus ho gaya hamare bhaijaan kaa interview dekh k, Lots of love for Salman bhaijaan as always & thank you so much Rajat sir For inviting our bhaijaan again in Aap ki Adalat.',

'There can be only one salman khan. Truly he is unique',

'Our megastar has become a humble man gradually...life gives experiences,lessons,every type of feelings and all,need to know the way to handle and enjoy and live life...proud to be your fan...thats a life everyone dream of...',

"Watched whole show in one way and its been a quite good learning experience from such genuine person MegaStarSalmanKhan lot's of love bhai jaan ",

'What else to say about him now! Love and Respect SK!!! ',

'Bachpan se Salman firt tha or puri zindagi ki akhir tak Salman Khan hi favourite rahega',

'Respected Salman sir ',

'Love You Salman bhai \n& Rajat Sir also',

'Biggest megastar of Indian cinema',

'Real zindagi me Salman bahot ache insaan hai',

'Golden heart Salman khan.. kisi ka bhai kisi ki jaan.',

'Two min silence for those who are thinking Rajat Sharma is interviewing him.\nSalman is saying whatever he wants to say.',

'He really changed a lot',  
 'i just love him',  
 'I am a SRK fan but this video on top ',  
 'OG Megastar India has ever seen. Most secure actor and the trendsetter.',  
 'Hez truly human being ',  
 'I love his smile ',  
 'Man of millennium most secure super Star ever keep it bhai ',  
 'Salman Bhaijaan \nBest of luck India TV',  
 'G.O.A.T megastar Salman Khan ',  
 'Calmost interview of bhaijaan till now ',  
 'Its heartfelt to know that some are threatening a person like this that he need this much security... For a mistake that he has done or not isnt even known or proven yet.... \nReally its so sad to know to that people are behind their brothers blood \nTo this person , who is this genuine, kind, helpful, experienced, and so so many such words... ',  
 'One of the best human being on earth may Allah always bless him and protect him may Allah fulfill his all dreams and desires Ameen we love you Salman bhai always',  
 'Salman:- Mai set pr sarart nhi krta..\nRajat:- shahrukh k sath blank gun se prank k isne kiya tha..',  
 'Superb show.....my all tym most fav actor salman sir....',  
 'Pehli brrrr itna bda interview dekha h our thda bhi borr nhi huaaa',  
 'Love you gentle man Salman sir ',  
 'Love you so much salman sir ',  
 'My love increases day by day for this mann, we lov u 1000000 bhaijan ',  
 'I can see the pain in the Salman eyes while answering the wife & love life question',  
 'I love Salman Khan ',  
 'One off the best personality in India he is my favourite actor because off his honest nature love you bhai ',  
 'I like Rajat Sharma way of journalism. He asks questions in such a way that the convict thinks he is safe and happy answering the questions, But true nature of convict comes out automatically for people to understand. I hope everyone comes to know about Salman Khan also.',  
 'ओनली Salman भाई can do ds interview openly..real boss of Bollywood nd पॉलिटिकल भी लताड़ा है भाई ने',  
 'Iss interviews ke baad mujhe salman bhai se aur bhi jyada pyaar ho gaya he is something else itna unfiltered genuine koi kaise ho sakta hain jo dil mein hain wo bol diya a love you bhai poore video dekhte bahaut pyaar aaya',  
 'Giving credits to Shahrukh even though he has most stardom than him. Respect for both',  
 'Salman Khan love you bhaijaan I Big fan of you aap ka bhoot bada mureed hu ma sir',  
 ',  
 'Salman sir and Rajat sir both are good friend.very show apki adalat',  
 '"YESTERDAY IS HISTORY" "TOMORROW IS MISTERY" "TODAY IS GIFT" " THAT WHY CALLED PRESENT"',  
 'I think nowadays he is calmer ',  
 'Love the bond between Salman and shehnaz ',  
 'I came here to read the comments and found all the comments are so amazing Love you all. And always love you bhaijaan..',  
 'Biggest Megastar of Indian Cinema ',  
 'Megastar off Bollywood ',  
 'Just love himm',  
 'Grat person mere Bhaijann & Always my favorite from childhood to lifetime',  
 'Salman Khan sir is the best actor and very kind gentle man ',  
 'Great guy he is ',  
 'I love salman khan',  
 'Bhai is the undisputed jaan of Bollywood',  
 'The way he respect women & that clothes though ',  
 'Verry Verry Nice Session\nThank You Salman Bhai And Rajat Sir\nVerry Best Of Good Luck Both Of You My Favourite And Beat Wishes For Launching in UAE',



'Pure soul',  
 "What a man he is , But the Question by Rajat sharma about Pathaan was really unfair to ask and Salman gave the best answer. It was only SRK and fans that nailed the Pathaan. SALMAN being the lead role in kbbkjkj couldn't make it to blockbuster.",  
 'Megastar Salman Khan ',  
 'Salman Khan is a selfless actor.. may god bless him with a long life .',  
 'True being human \nLove you sir @salmankhan ',  
 'All time favourite star ',  
 'We always love u salman bhai ',  
 'A man known for his positive attitude and also straight forward nature ',  
 'Megastar salman bhai love you forever ',  
 'wat a golden heart man he is',  
 'It was a pleasure to be in the audience and watch him live!',  
 'Today we saw amazing and new nature Salman still if peoples hates u those only enemies never want people be good day by day ',  
 'Aaj ke Salman ko Log bura bolte hai. Par 90s ke Salman ki baat hee alag hai . Salman ki 90s & Mid Film ek dam jhakaas ',  
 'One of the Great actor in Bollywood history wonderful human being amazing person in Bollywood one only Salman Khan Hope to see more blockbuster movies in Bollywood ',  
 'All time favourite Salman khan',  
 'REAL MEGA SALMAN BHAI',  
 'Salman Khan is special! A truly wonderful, extremely likeable and one of the most charming superstars of our time! May the man continue to rule like this forever! ',  
 'It was nice to see salman here.. he is looking completely changed',  
 'Salman akela h jo muhabbat ka gham har waqt liye phirta hai \nChehre par hansi k saath ',  
 'Salman + Dharma production ',  
 'This just made me a bigger fan of Salman Khan',  
 'Love u SALMAN BHAIJAAN ',  
 '10:41 The way he said fault mujmy hi lie krta hai i felt it',  
 "Love u so much Most handsome.. most stylish.. who's eyes r as romantic as he has been.. Big Star in Indian film .. uncountable fan's are there in India and overseas.. take care Salman Khan .. u r truly our heartthrob super star .. we want many more super hit films from u .. I wait for that ..",  
 'Absolutely loved it',  
 'Salman's entry is always ',  
 'i still remember when I was just 8 years old my grand father said me in a deep peaceful voice dear one day some people will waste their time on reading your comment and today is that day ',  
 'MEGASTAR ',  
 'Salman khan is totally changed . Love from Pakistan to salman khan',  
 'Im a big fan of Salman Khan this is my favorite actor..lots of love from sultanate of oman Muscat.. love sir',  
 "Salman Khan seems genuine that's why people love him",  
 'Love you Salman Sir Bhaijaan you are the best of Allwood SULTAN ',  
 'Salman you are my first and last love unfortunately shadi to ho gai but pyaar is only with you ',  
 'U r so intelligent Salman Khan ',  
 '"YESTERDAY IS HISTORY" "TOMORROW IS MISTERY" "TODAY IS GIFT" " THAT WHY CALLED PRESENT"',  
 'Real man ..kind heart man ',  
 'Salman Khan is unmatched in Bollywood MashaAllah ',  
 'Isiliye mai inki fan hu... ',  
 'Seeing our Childhood Stars Ageing like Tom Cruise and Salman Khan is hard to watch',  
 'Salman is amazing human being I love you Salman ',  
 'Salman b safe plzz .....b with ur tight security cause we love u all ',  
 'Always favorite salman khan',  
 'The sigma nd alfa man of bollywood . Salu bhai rocks',  
 "He has guts to speak truth on national tv.Very humble, intelligent and brainy.Do

n't blame urself regarding love who were involved they were not less faulty there wer  
e also to be blamed.",  
'Love you megastar salman khan ',  
'He is still so young ',  
'Look at the answer, every ans is touching hearts, look at his eyes, its so innocen  
t, he is real megastar of world cinema, he said he loves kids bt we all know he will  
never marry becoz of aishwarya rai , his love is real, nice man hats off to u Salman  
Khan , Megastar ',  
'Oooo my God thank you ye video post k liye Salman Khan ',  
'Salman handed every question very calmly... great',  
'The one thing I really get upset is that to see my fav actors getting old weather  
he is salman shahrukh & Amir',  
'My best hero real herolove you salman khan ge.',  
'He is so handsome at the age of 57 ',  
'Rajat Sir please bring Aamir & Salman in a film together will have a blockbuster hi  
t. Produced it.',  
'Love u salman , such a nicely said " ladki o ki body precious hay " love the respec  
t for women love for sallu ',  
'I Love You Salman Bhai Always all time my favourite most handsome charming good lo  
oking man love u',  
'U can ignore bwood but u can't ignore Salman Khan ",  
'3:39 salute to this man what a thing he said',  
'Only rajat sir is true journalist rest all want to defame bhai...\nOne like fr raja  
t sir and bhaijaan frndship..',  
'Best Interview nd Best Episode Salman Khan ',  
'thats why i love him',  
'God should protect him...there'S a reason why god sent him in this world.. many peo  
ple are living peacefully as god has send him as an angel to those many people... All  
ah tala salamat rakhein",  
'I like Salman, his personal life is so up nd down,even after he is moving on strong  
ly, big heart',  
'29:10 about Sanjay Dutt, Salman says, " Allah unko lambi umar de"',  
'Salman lives in our heart. ..., I request him to do right films with right person a  
lways. Don't fall ur carrier due some closest but untalented people",  
'49:04 Salman Khan has said yes to Karan Johar's film. BRING IT ON!!!! EID 2024 ',  
'I love him my favourite actor ',  
'He is so sweet ',  
'Salman Khan Bollywood king ',  
'Salman khan is back ',  
'What a man he islove to watching him',  
'Supreme peace and happiness, instead of being here in this world, is present in our  
real home Satlok, where there is no birth, no death, no old age, no sorrows, no unres  
t, no disease.\nSant Rampal Ji Maharaj',  
'Waise Salman to Salman h. Lekin rajat Sir ne jo India tv ko uae me pauchaya hai. IN  
INININININININSach me dil khus ho gya ',  
'Great Salman Sir I Like the Last words we hurt ourselves but still we Entertained y  
ou all May Allah protect you you Bhai Love you bless you',  
'Aye sallu bhai dil ke achche insaan hai bhagwan unke saari wishes puri hojaye ek ac  
hchi saadi bhi hojaye',  
'Legend Salman ',  
'My best hero always forever salman sir',  
'I love him so much .',  
'All time favourite bhaijaan's ",  
'He's CHANGED in the past few years ",  
'Salman khan ko log bohot misunderstood karte hain...par aadmi bohot hi faithful and  
wise hain...golden hearted salman khan',  
'Ceo of indian cinema -megastar Salman khan',  
'Reallly he is a real megastar love u salman bhai',  
'What a Golden heart man he is!!',  
'Very nice and down to earth',

'Thank you rajat sir for this interview ',  
 'Just a bigger fan of Salman Khan ',  
 'Why he is trolled for not having a partner? No one talks about why all the girls come and take his advantage to move on in career, in income and run away. I think he is stood firm at his ground (family) and nvr run away from his responsibilities as a son, as brother, as a friend. STOP teasing him',  
 'Salman, I am a fan of yours from MPK. You are considerably talented with superb screen presence - now focus on better script. You kindly act with the best of your ability. Rest you leave up to others who are better than you. Hope you got it. All the best !!!',  
 'A living legend',  
 'Love you Salman Sir ',  
 'Love and respect always for this man',  
 '12:26 As his Oldest Fan i literally cant see him like this',  
 'He is so humble.',  
 'This made my day',  
 '50:01 GOOSEBUMPS moment ',  
 'Megastar salman bhai ',  
 "Hate or love but you can't ignore selmon bhai ",  
 'My favorite episode ',  
 'Last scenes is very emotional\nBecause true love never dies',  
 'Bhaijaan is proud for our country hall worlds know our bhaijaan love you bhaijaan ',  
 '25:49 Reporters and media always thought negative about Salman',  
 'Family ka bhai India ki jaan Salman Khan ',  
 'Salman bhai is love of every Indian ',  
 'May he get married to a wonderful woman...and have many kids\nLove from Pakistan PK',  
 'Salman jee has brought a new revolution in the film industry',  
 'This was the best episode of salman khan in Aap ki adalat.....i love it ',  
 'Love you salman bhaipure gold',  
 'I am watching him since I was 3yr old and he never age.',  
 'Megastar ',  
 'Yrr Salman ki kya soch hai yr sachi yr ',  
 'Real super hero Salman Khan sir . From Bangladesh.',  
 'First time dekh rha hu wo bhi salman khan ke wajh se',  
 'One of the best app ki adalat show 2023 maine love you salman bhai please Amitabh Bachchan no leker aaiye Rajat Sharma sir',  
 'I love his honesty innocence I love this guy',  
 'A Man With A Golden Heart ',  
 'True diamond indian film industry...',  
 'Such a great Compassion human being... love it',  
 'Dunia ek side mein, bhaijan ek side mein',  
 'Great Actor of Bollywood all time Salman bhai after Yusuf Khan Sahab, Dilip Kumar',  
 'My celeb idol & hero off/on screen .. pls take care & stay healthy salman khan .. we love you ',  
 'Salman khan is always megastar in Indian film industry',  
 'Salman Khan is such a human being super star in India. leave long ',  
 'Good to see him talk with care and wisdom ... good',  
 'The megastar Salman Khan,.....most handsome man.....so cute my big brother Sallu.....god bless you with ur cute face',  
 'Salman Bhai is the biggest Mega Star Sultan tiger of bollywood ',  
 'Now he is matured man. \nWe love you',  
 'He is real man yaar jo juba pe hai bo dil main hota hai just ignore kya past main hua ta but still he is the most humble in any one andar se ek chota bacha chup ke rahi hai isliye sayed sab pasand karte hai Salman ko he is nice guy no one can beat him... love you my sweetheart sty safe Allah always bless you sty happy we always stand for him ',  
 'Biggest megastar Bhaijaan ',  
 'Love You Bro Salman May Allah Protect You From All evil eyes..... Young youth ki jaan ..... Inshallah jo bhi apki pareshani hai woh khatam hooo.... Ameen',

'What a man personality ',  
 'Aise soch ko saalam h bhai , me v aapke jaise bnna chahta hu great human being ',  
 'Real man with golden heart luv u',  
 'Salman your too good yrr\nI can feel some another things of your',  
 'Vai jan is great man of asia not Only asia in the world bd\nLove you big brother',  
 ',  
 'God father of Bollywood Industry ',  
 'Love you Salman Bhai',  
 'DABANGG OF BOLLYWOOD ',  
 'Loved the interview',  
 '59:07 In my opinion, that scene was very fine and brilliantly shot.\nNawaz sir was right because when Salman sir let them out from that situation was very beautiful.',  
 'Boss man Salman Khan ',  
 'Still the best interview of best F1 driver of India, animals lover and a prayer who prays all the actresses in his farm house',  
 'Salman Khan is nice person huge respect',  
 'Love MegaSuperStar Salman Khan ',  
 'Laughing superb',  
 'Very good interview salman khan ',  
 'Salman khan is the mega star of Bollywood ',  
 'Episode is incomplete without salman and rajat ji doing exercise together',  
 'Love you Salman sir ',  
 'Sher e hindustan sher e pathaan hazarat sultan salman khan sahab zindabaad bollywood king khan sahab ',  
 'Salman Khan girl ka respect kr te hai Love you sir',  
 'I am from Bangalore, the best person in the world is Salman Khan, as big as his heart is. No one in this world has it. He is a big hearted person. I am a big fan of Salman Khan and I watch each of his movies 10-10 times. I love each and every dialogue action of his. Everything in the song sounds great.',  
 'One and only salman khan stardom ',  
 "someone said,\nPeople change in four different stages of their lives.\n1. People change when they hurt enough they have to.\n2. when they see enough they've inspired to do.",  
 'Jabardast SALMAN KHAN ',  
 'If he has 1 trillion fans , i am one of them.\nIf he has 1 billion or million fans, i am one of them.\nIf has 100 fans , i am one of them.\nIf i has 0 fans , that means i am died. ',  
 'He is a great person with golden heart',  
 'All time favourite hero ',  
 'Bhai ... No one can replace you.',  
 'My favourite only you salman',  
 'Mere ko kab se wait tha ki salman bhai aaye ',  
 'Always love you sir! I assume him as brand ambassador of Indian',  
 'He is so humble man Salman ',  
 'Power hai Salman Khan ka 1din me 1.8million views jana mamuli bat hai ',  
 'Saff dil k Salman khan.. sb ki Jaan..desh ki shan.. hume ha ap par man.. love you salman sir. ',  
 'Down to earth hai bhai',  
 'Love you salmannn ',  
 'THE BIGGEST MEGASTAR SALMAN KHAN IN',  
 'Mashaallah looks so young handsome & dashing God bless him',  
 'Salman is real meaga star lots of respect for Him',  
 'Salman Khan u r amazing human being ',  
 'Salman sir is the best person of the world he is really honest person. Behave politely to every one. He is megastar',  
 'He comes in aap ki adalat four time and looks always same',  
 'Aap ki adaalat is like makeover opportunity. Celebs send their questions and come and answer in flattering manner.',  
 'The most down to earth person ',  
 'Salman Sir is Good Human And Lovely Attitude',

'Really great person,, hug respect mr khan',  
'रजत जी आप जैसा कोई नहीं,best of luck for this ',  
'Megastar my megastar ',  
'God bless you Salman sir',  
'Always Salman Sir Shehnaaz ',  
'Salman is very honest ',  
'Full on entertainment ',  
'Sweet Salman khan is a Dimond heart actor and king of the world \nLove you sweet Salman khan from CA us ',  
'Salman Khan op sabka jaan hai desh ki shaan hai, sallu bhai aapko meri umar lag jaye',  
"It's an amazing episode "]

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In [201...

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In [202...

```
driver.close()
```

## Q9

In [203...

```
!pip install Selenium
```

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Requirement already satisfied: trio-websocket~=0.9 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.10.2)
Requirement already satisfied: trio~=0.17 in c:\users\sony\anaconda3\lib\site-packages (from Selenium) (0.22.0)
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Requirement already satisfied: idna in c:\users\sony\anaconda3\lib\site-packages (from trio~=0.17->Selenium) (3.3)
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Requirement already satisfied: h11<1,>=0.9.0 in c:\users\sony\anaconda3\lib\site-packages (from wsproto>=0.14->trio-websocket~=0.9->Selenium) (0.14.0)
```

In [5]:

```
import selenium
import pandas as pd
from selenium import webdriver
from selenium.webdriver.common.by import By
import warnings
warnings.filterwarnings('ignore')
import time
import requests
from selenium.common.exceptions import NoSuchElementException, StaleElementReferenceException
```

In [6]:

```
driver= webdriver.Chrome(r"C:\Users\Sony\Downloads\chromedriver.exe")
driver.get("https://www.hostelworld.com/")
```

```
In [10]: location= driver.find_element(By.XPATH, '/html/body/div[3]/div/div/div[2]/div[2]/div[2]
location.send_keys('London')
```

```
In [12]: exact_loc= driver.find_element(By.XPATH, '/html/body/div[3]/div/div/div[2]/div[2]/div[2]
exact_loc.click()
```

```
In [13]: button= driver.find_element(By.XPATH, '/html/body/div[3]/div/div/div[2]/div[2]/div[2]/c
button.click()
```

```
In [15]: name=[]
distance=[]
rating=[]
review=[]
p_price=[]
d_price=[]
facilities=[]

names= driver.find_elements(By.XPATH, '//div[@class="property-name"]')
for store in names:
    h_name=store.text
    name.append(h_name)

dist= driver.find_elements(By.XPATH, '//span[@class="distance-description"]')
for store in dist:
    dis=store.text
    distance.append(dis)

ratings= driver.find_elements(By.XPATH, '//div[@class="score"]')
for store in ratings:
    rate=store.text
    rating.append(rate)

reviews= driver.find_elements(By.XPATH, '//span[@class="left-margin"]')
for store in reviews:
    t_review=store.text
    review.append(t_review)

try:
    private= driver.find_elements(By.XPATH, '//div[@class="accommodation-price"]')
    for store in private[0:60:2]:
        p_rate=store.text
        p_price.append(p_rate)
except NoSuchElementException:
    p_price.append('-')

try:
    dorm= driver.find_elements(By.XPATH, '//div[@class="accommodation-price"]')
    for store in dorm[1:60:2]:
        d_rate=store.text
        d_price.append(d_rate)
except NoSuchElementException:
    d_price.append('-')
```

```
In [17]: product_url=[]
description=[]
```

```
urls= driver.find_elements(By.XPATH,'//a[@class="view-button"]')
for store in urls:
    product_url.append(store.get_attribute('href'))
```

```
In [18]: for url in product_url:
        driver.get(url)
        time.sleep(2)

        try:
            p_des= driver.find_element(By.XPATH,'/html/body/div[3]/div/div/div[2]/section/
            description.append(des)
        except NoSuchElementException:
            description.append('-')
```

```
In [ ]:
```