

```
In [1]: import selenium
import pandas as pd
from selenium import webdriver
import warnings
warnings.filterwarnings('ignore')
from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementException
from selenium.webdriver.common.by import By
import time
from bs4 import BeautifulSoup
```

In []:

1. Write a python program which searches all the product under a particular product from www.amazon.in. The product to be searched will be taken as input from user. For e.g. If user input is 'guitar'. Then search for guitars.

In []:

```
In [2]: driver=webdriver.Chrome(r'C:/chromedriver.exe')
```

```
In [22]: driver.maximize_window()
```

```
In [23]: time.sleep(5)
```

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

```
In [25]: user_input = input('Enter the product that we want to search : ')
```

Enter the product that we want to search : guitar

```
In [27]: search=driver.find_element(By.ID,"twotabsearchtextbox")
search.send_keys(user_input)
```

```
In [28]: button=driver.find_element(By.ID,"nav-search-submit-button")
button.click()
```

In []:

2. In the above question, now scrape the following details of each product listed in first 3 pages of your search results and save it in a data frame and csv. In case if any product has less than 3 pages in search results then scrape all the products available under that product name. Details to be scraped are: "Brand Name", "Name of the Product", "Price", "Return/Exchange", "Expected Delivery", "Availability" and "Product URL". In case, if any of the details are missing for any of the product then replace it by "-"

In []:

```
In [9]: urls=[]
start=0
end=3
for page in range(start,end):
    url=driver.find_elements(By.XPATH,'//a[@class="a-link-normal s-underline-text s-underline-link-text s-link-
    for i in url:
        urls.append(i.get_attribute('href'))

    next_button=driver.find_elements(By.XPATH,'//a[@aria-label="Go to next page, page 2"]')
```

```
In [26]: urls
```

```
Out[26]: ['https://www.amazon.in/sspa/click?ie=UTF8&spc=MT00MTk3NjQyNDc3NjMzNDU50jE20DM5MTE3NTU6c3BfYXRmOjIwMDg4NDY1ODU5
NDA00jow0jo&url=%2FHenrix-Cutaway-Acoustic-Guitar-Action%2Fdp%2FB097NCQFFM%2Fref%3Dsr_1_1_sspa%3Fcrd%3DQH2MOW7
660JU%26keywords%3Dguitar%26qid%3D1683911755%26srefix%3Dguitar%252Caps%252C494%26sr%3D8-1-spons%26sp_csd%3D2L
kZ2V0TmFtZTlzcF9hdGY%26psc%3D1',
'https://www.amazon.in/Juarez-Acoustic-Cutaway-038C-Strings/dp/B017NPCSLI/ref=sr_1_2?crd=QH2MOW7660JU&keyword
s=guitar&qid=1683911755&srefix=guitar%2Caps%2C494&sr=8-2',
'https://www.amazon.in/Intern-INT-38C-Acoustic-Guitar-Black/dp/B073B6TQQY/ref=sr_1_3?crd=QH2MOW7660JU&keyword
s=guitar&qid=1683911755&srefix=guitar%2Caps%2C494&sr=8-3',
'https://www.amazon.in/JUAREZ-JRZ38C-Acoustic-Sunburst-Strings/dp/B01FYITDTU/ref=sr_1_4?crd=QH2MOW7660JU&keyw
ords=guitar&qid=1683911755&srefix=guitar%2Caps%2C494&sr=8-4',
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'https://www.amazon.in/Yamaha-F280-Acoustic-Guitar-Natural/dp/B08317Y4VP/ref=sr_1_5?crd=QH2MOW7660JU&keywords
=guitar&qid=1683911755&srefix=guitar%2Caps%2C494&sr=8-5',
'https://www.amazon.in/JUAREZ-JRZ38C-Acoustic-Sunburst-Strings/dp/B01FYITDS6/ref=sr_1_6?crd=QH2MOW7660JU&keyw
ords=guitar&qid=1683911755&srefix=guitar%2Caps%2C494&sr=8-6',
```

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'https://www.amazon.in/Bluberry-VIP-390-Classical-Guitar/dp/B0BVYTGMTM/ref=sxbs_aspa_sqa?c_c=533051941&content-id=amzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c3Aamzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&crid=QH2MOW7660JU&cv_ct_cx=guitar&keywords=guitar&pd_rd_i=B0BVYTGMTM&pd_rd_r=f458767b-e261-4eac-8b22-15dc9d6a0708&pd_rd_w=Ix7NI&pd_rd_wg=zdZc1&pf_rd_p=2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&pf_rd_r=GWMZKQ1C2QHFWNA6A28&qid=1683911755&sbo=RZvfv%2F%2FHxDF%2B05021pAnSA%3D%3D&prefix=guitar%2Caps%2C494&sr=1-8-93291ede-2a7a-4e75-a6c2-b89c29736263',
'https://www.amazon.in/Juarez-Acoustic-Cutaway-038C-Strings/dp/B017NPCSLI/ref=sxbs_aspa_sqa?c_c=621615956&content-id=amzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c3Aamzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&crid=QH2MOW7660JU&cv_ct_cx=guitar&keywords=guitar&pd_rd_i=B017NPCSLI&pd_rd_r=f458767b-e261-4eac-8b22-15dc9d6a0708&pd_rd_w=Ix7NI&pd_rd_wg=zdZc1&pf_rd_p=2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&pf_rd_r=GWMZKQ1C2QHFWNA6A28&qid=1683911755&sbo=RZvfv%2F%2FHxDF%2B05021pAnSA%3D%3D&prefix=guitar%2Caps%2C494&sr=1-2-93291ede-2a7a-4e75-a6c2-b89c29736263',
'https://www.amazon.in/Intern-INT-38C-Acoustic-Guitar-Black/dp/B073B6TQQY/ref=sxbs_aspa_sqa?c_c=621615956&content-id=amzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c3Aamzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&crid=QH2MOW7660JU&cv_ct_cx=guitar&keywords=guitar&pd_rd_i=B073B6TQQY&pd_rd_r=f458767b-e261-4eac-8b22-15dc9d6a0708&pd_rd_w=Ix7NI&pd_rd_wg=zdZc1&pf_rd_p=2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&pf_rd_r=GWMZKQ1C2QHFWNA6A28&qid=1683911755&sbo=RZvfv%2F%2FHxDF%2B05021pAnSA%3D%3D&prefix=guitar%2Caps%2C494&sr=1-3-93291ede-2a7a-4e75-a6c2-b89c29736263',
'https://www.amazon.in/Yamaha-F280-Acoustic-Guitar-Natural/dp/B08317Y4VP/ref=sxbs_aspa_sqa?c_c=621615956&content-id=amzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c3Aamzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&crid=QH2MOW7660JU&cv_ct_cx=guitar&keywords=guitar&pd_rd_i=B08317Y4VP&pd_rd_r=f458767b-e261-4eac-8b22-15dc9d6a0708&pd_rd_w=Ix7NI&pd_rd_wg=zdZc1&pf_rd_p=2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&pf_rd_r=GWMZKQ1C2QHFWNA6A28&qid=1683911755&sbo=RZvfv%2F%2FHxDF%2B05021pAnSA%3D%3D&prefix=guitar%2Caps%2C494&sr=1-5-93291ede-2a7a-4e75-a6c2-b89c29736263',
'https://www.amazon.in/JUAREZ-JRZ38C-Acoustic-Sunburst-Strings/dp/B01FYTTDTU/ref=sxbs_aspa_sqa?c_c=621615956&c

ontent-id=amzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c%3Aamzn1.sym.2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&crd=QH2MOW7660JU&cv_ct_cx=guitar&keywords=guitar&pd_rd_i=B01FYDTU&pd_rd_r=f458767b-e261-4eac-8b22-15dc9d6a0708&pd_rd_w=Ix7NI&pd_rd_wg=zdZc1&pf_rd_p=2ebf6aef-07da-440f-8e9d-3a959a5bfb5c&pf_rd_r=GWMZKQ1C2QHFWNA6AZ8&qid=1683911755&sbo=RZvfv%2F%2FHxDF%2B05021pAnSA%3D%3D&sprefix=guitar%2Caps%2C494&sr=1-7-93291ede-2a7a-4e75-a6c2-b89c29736263']

```
In [15]: Brand_Name=[]
Name_of_the_Product=[]
Price=[]
Return_Exchange=[]
Expected_Delivery=[]
Availability=[]
Product_URL=[]

for i in urls:
    driver.get(i)
    time.sleep(3)

    try:
        brand=driver.find_element(By.XPATH, '//span[@class="a-size-base po-break-word"]')
        Brand_Name.append(brand.text)
    except NoSuchElementException :
        Brand_Name.append('NA')

    try:
        product=driver.find_element(By.XPATH, '//span[@id="productTitle"]')
        Name_of_the_Product.append(product.text)
    except NoSuchElementException :
        Name_of_the_Product.append('NA')

    try:
        price=driver.find_element(By.XPATH, '//span[@class="a-price-whole"]')
        Price.append(price.text)
    except NoSuchElementException :
        Price.append('NA')

    try:
        returns=driver.find_element(By.XPATH, '//span[@class="a-declarative"]/div/a')
        Return_Exchange.append(returns.text)
    except NoSuchElementException :
        Return_Exchange.append('NA')

    try:
        delivery=driver.find_element(By.XPATH, '//span[@class="a-text-bold"]')
        Expected_Delivery.append(delivery.text)
    except NoSuchElementException :
        Expected_Delivery.append('NA')

    try:
        availability=driver.find_element(By.XPATH, '//span[@class="a-size-medium a-color-success"]')
        Availability.append(availability.text)
    except NoSuchElementException :
        Availability.append('NA')

    try:
        p_url=driver.find_element(By.XPATH, '//a[@class="a-link-normal"]')
        Product_URL.append(p_url.get_attribute('href'))
    except NoSuchElementException :
        Product_URL.append('NA')
```

```
In [18]: print(len(Brand_Name),len(Name_of_the_Product), len(Price),len(Return_Exchange),len(Expected_Delivery), len(Ava
174 174 174 174 174 174 174
```

```
In [32]: df=pd.DataFrame({'Brand_Name':Brand_Name,'Name_Of_The_Product':Name_of_the_Product,'Price':Price,'Return/Exchan
df.head()
```

```
Out[32]:
```

	Brand_Name	Name_Of_The_Product	Price	Return/Exchange	Expected_Delivery	Availability	Product_URL
0	JUAREZ	Juárez Acoustic Guitar, 38 Inch Cutaway, 038C ...	1,999	7 days Replacement	Tuesday, 16 May	In stock	https://www.amazon.in/Juarez-Acoustic-Cutaway-...
1	Intern	Intern INT-38C Right hand Acoustic Guitar Kit,...	2,199	7 days Replacement	Monday, 15 May	In stock	https://www.amazon.in/Intern-INT-38C-Acoustic-...
2	JUAREZ	Juarez Lindenwood Acoustic Guitar Kit, 38 Inch...	1,999	7 days Replacement	Tuesday, 16 May	In stock	https://www.amazon.in/JUAREZ-JRZ38C-Acoustic-S...
3	Kadence	Kadence Guitar Acoustica Series, Electric Acou...	6,999	7 days Replacement	Monday, 15 May	In stock	https://aax-eu.amazon.in/x/c/RErJJ3p0Z2z57S63B...
4	YAMAHA	Yamaha F280 Acoustic Rosewood Guitar (Natural,...	7,200	7 days Replacement	Monday, 15 May	In stock	https://www.amazon.in/Yamaha-F280-Acoustic-Gui...

```
In [30]: df.to_csv("Guitar.csv")
```

```
In [31]: driver.close()
```

```
In [ ]:
```

3. Write a python program to access the search bar and search button on images.google.com and scrape 10 images each for keywords 'fruits', 'cars' and 'Machine Learning', 'Guitar', 'Cakes'.

```
In [ ]:
```

```
In [31]: import requests
import re
```

```
In [32]: driver=webdriver.Chrome(r'C:/chromedriver.exe')
```

```
In [33]: driver.maximize_window()
```

```
In [34]: time.sleep(3)
```

```
In [35]: url="http://images.google.com/"
```

```
In [36]: urls = []
data = []
```

```
In [37]: search_item = ["Fruits","Cars","Machine Learning", "Guitar", "Cakes"]
for item in search_item:
    driver.get(url)
    time.sleep(3)
```

```
In [41]: search = driver.find_element(By.XPATH, '/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/div/div[2]/textarea')
search.send_keys('item')
```

```
In [42]: button = driver.find_element(By.XPATH, "/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/button/div/span")
button.click()
```

```
In [27]: for _ in range(20):
    driver.execute_script("window.scrollTo(0,100)")

    imgs = driver.find_elements(By.XPATH, "//img[@class='rg_i Q4LuWd']")
    img_url = []
    for image in imgs:
        source = image.get_attribute('src')
        if source is not None:
            if source[0:4] == 'http':
                img_url.append(source)
        for i in img_url[:10]:
            urls.append(i)
    for i in range(len(urls)):
        if i > 10:
            break
    print("Downloading {0} of {1} images" .format(i,10))
    response = requests.get(urls[i])

    file = open(r"C:\Users\HP\Desktop\INTERNSHIP"+str(i)+".jpg", "wb")

    file.write(response.content)
```

```
Downloading 0 of 10 images
Downloading 1 of 10 images
Downloading 2 of 10 images
Downloading 3 of 10 images
Downloading 4 of 10 images
Downloading 5 of 10 images
Downloading 6 of 10 images
Downloading 7 of 10 images
Downloading 8 of 10 images
Downloading 9 of 10 images
Downloading 10 of 10 images
```

```
In [28]: driver.close()
```

```
In [ ]:
```

```
In [43]: driver=webdriver.Chrome(r'C:/chromedriver.exe')
```

```
In [44]: driver.maximize_window()
```

```
In [45]: time.sleep(2)
```

```
In [46]: url="http://images.google.com/"
```



```
In [47]: urls = []
        data = []
```

```
In [49]: search_item = ["Fruits","Cars","Machine Learning", "Guitar", "Cakes"]
        for item in search_item:
            driver.get(url)
            time.sleep(3)
            search = driver.find_element(By.XPATH, '/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/div/div[2]/textar
            search.send_keys('Fruits')

            button = driver.find_element(By.XPATH, "/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/button/div/span")
            button.click()
```

```
In [50]: for _ in range(20):
        driver.execute_script("window.scrollTo(0,100)")

        imgs = driver.find_elements(By.XPATH, "//img[@class='rg_i Q4LuWd']")
        img_url = []
        for image in imgs:
            source = image.get_attribute('src')
            if source is not None:
                if(source[0:4] == 'http'):
                    img_url.append(source)
                for i in img_url[:10]:
                    urls.append(i)
        for i in range(len(urls)):
            if i > 10:
                break
        print("Downloading {0} of {1} images" .format(i,10))
        response = requests.get(urls[i])

        file = open(r"C:\Users\HP\Desktop\INTERNSHIP"+str(i)+".jpg", "wb")

        file.write(response.content)
```

```
Downloading 0 of 10 images
Downloading 1 of 10 images
Downloading 2 of 10 images
Downloading 3 of 10 images
Downloading 4 of 10 images
Downloading 5 of 10 images
Downloading 6 of 10 images
Downloading 7 of 10 images
Downloading 8 of 10 images
Downloading 9 of 10 images
Downloading 10 of 10 images
```

```
In [62]: driver.close()
```

```
In [60]: driver=webdriver.Chrome(r'C:/chromedriver.exe')
        driver.maximize_window()
        time.sleep(2)
        url="http://images.google.com/"
        urls = []
        data = []

        search_item = ["Fruits","Cars","Machine Learning", "Guitar", "Cakes"]
        for item in search_item:
            driver.get(url)
            time.sleep(3)
            search = driver.find_element(By.XPATH, '/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/div/div[2]/textar
            search.send_keys('Cars')

            button = driver.find_element(By.XPATH, "/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/button/div/span")
            button.click()
```

```
In [61]: for _ in range(20):
        driver.execute_script("window.scrollTo(0,100)")

        imgs = driver.find_elements(By.XPATH, "//img[@class='rg_i Q4LuWd']")
        img_url = []
        for image in imgs:
            source = image.get_attribute('src')
            if source is not None:
                if(source[0:4] == 'http'):
                    img_url.append(source)
                for i in img_url[:10]:
                    urls.append(i)
        for i in range(len(urls)):
            if i > 10:
                break
        print("Downloading {0} of {1} images" .format(i,10))
        response = requests.get(urls[i])
```

```
file = open(r"C:\Users\HP\Desktop\INTERNSHIP"+str(i)+".jpg", "wb")
```

```
file.write(response.content)
```

```
Downloading 0 of 10 images  
Downloading 1 of 10 images  
Downloading 2 of 10 images  
Downloading 3 of 10 images  
Downloading 4 of 10 images  
Downloading 5 of 10 images  
Downloading 6 of 10 images  
Downloading 7 of 10 images  
Downloading 8 of 10 images  
Downloading 9 of 10 images  
Downloading 10 of 10 images
```

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

```
In [54]: driver=webdriver.Chrome(r'C:/chromedriver.exe')  
driver.maximize_window()  
time.sleep(2)  
url="http://images.google.com/"  
urls = []  
data = []  
  
search_item = ["Fruits","Cars","Machine Learning", "Guitar", "Cakes"]  
for item in search_item:  
    driver.get(url)  
    time.sleep(3)  
    search = driver.find_element(By.XPATH, '/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/div/div[2]/textar  
    search.send_keys('Machine Learning')  
  
    button = driver.find_element(By.XPATH, "/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/button/div/span")  
    button.click()
```

```
In [55]: for _ in range(20):  
    driver.execute_script("window.scrollTo(0,100)")  
  
    imgs = driver.find_elements(By.XPATH, "//img[@class='rg_i Q4LuWd']")  
    img_url = []  
    for image in imgs:  
        source = image.get_attribute('src')  
        if source is not None:  
            if(source[0:4] == 'http'):  
                img_url.append(source)  
            for i in img_url[:10]:  
                urls.append(i)  
for i in range(len(urls)):  
    if i > 10:  
        break  
    print("Downloading {0} of {1} images" .format(i,10))  
    response = requests.get(urls[i])  
  
    file = open(r"C:\Users\HP\Desktop\INTERNSHIP"+str(i)+".jpg", "wb")  
  
    file.write(response.content)
```

```
Downloading 0 of 10 images  
Downloading 1 of 10 images  
Downloading 2 of 10 images  
Downloading 3 of 10 images  
Downloading 4 of 10 images  
Downloading 5 of 10 images  
Downloading 6 of 10 images  
Downloading 7 of 10 images  
Downloading 8 of 10 images  
Downloading 9 of 10 images  
Downloading 10 of 10 images
```

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

```
In [56]: driver=webdriver.Chrome(r'C:/chromedriver.exe')  
driver.maximize_window()  
time.sleep(2)  
url="http://images.google.com/"  
urls = []  
data = []  
  
search_item = ["Fruits","Cars","Machine Learning", "Guitar", "Cakes"]  
for item in search_item:  
    driver.get(url)  
    time.sleep(3)  
    search = driver.find_element(By.XPATH, '/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/div/div[2]/textar  
    search.send_keys('Guitar')  
  
    button = driver.find_element(By.XPATH, "/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/button/div/span")  
    button.click()
```

```
In [57]: for _ in range(20):
        driver.execute_script("window.scrollTo(0,100)")

        imgs = driver.find_elements(By.XPATH,"//img[@class='rg_i Q4LuWd']")
        img_url = []
        for image in imgs:
            source = image.get_attribute('src')
            if source is not None:
                if(source[0:4] == 'http'):
                    img_url.append(source)
        for i in img_url[:10]:
            urls.append(i)
        for i in range(len(urls)):
            if i > 10:
                break
        print("Downloading {0} of {1} images" .format(i,10))
        response = requests.get(urls[i])

        file = open(r"C:\Users\HP\Desktop\INTERNSHIP"+str(i)+".jpg", "wb")

        file.write(response.content)
```

```
Downloading 0 of 10 images
Downloading 1 of 10 images
Downloading 2 of 10 images
Downloading 3 of 10 images
Downloading 4 of 10 images
Downloading 5 of 10 images
Downloading 6 of 10 images
Downloading 7 of 10 images
Downloading 8 of 10 images
Downloading 9 of 10 images
Downloading 10 of 10 images
```

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

```
In [ ]:
```

4. Write a python program to search for a smartphone (e.g.: OnePlus Nord, pixel 4A, etc.) on www.flipkart.com and scrape following details for all the search results displayed on 1st page. Details to be scraped: "Brand Name", "Smartphone name", "Colour", "RAM", "Storage(ROM)", "Primary Camera", "Secondary Camera", "Display Size", "Battery Capacity", "Price", "Product URL". In case if any of the details is missing then replace it by "-". Save your results in a dataframe and CSV.

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [46]: driver=webdriver.Chrome(r'C:/chromedriver.exe')
```

```
In [47]: driver.get("https://www.flipkart.com/")
        driver.maximize_window()
```

```
In [48]: pop_ad=driver.find_element(By.XPATH,"/html/body/div[2]/div/div/button")
        pop_ad.click()
```

```
In [49]: search=driver.find_element(By.CLASS_NAME,"_3704LK")
        search.send_keys('pixel 4A')
```

```
In [50]: button=driver.find_element(By.XPATH,'/html/body/div[1]/div/div[1]/div[1]/div[2]/div[2]/form/div/button')
        button.click()
```

```
In [51]: page_url=[]
        urls=driver.find_elements(By.XPATH,'//a[@class="_1fQZEK"]')
        for url in urls:
            page_url.append(url.get_attribute('href'))
```

```
In [52]: len(page_url)
```

```
Out[52]: 24
```

```
In [53]: Smartphones = ({}))
        Smartphones['Brand'] = []
        Smartphones['Phone name'] = []
        Smartphones['Colour'] = []
        Smartphones['RAM'] = []
        Smartphones['Storage(ROM)'] = []
        Smartphones['Primary Camera'] = []
        Smartphones['Secondary Camera'] = []
        Smartphones['Display Size'] = []
        Smartphones['Display Resolution'] = []
```

```
Smartphones['Processor'] = []
Smartphones['Processor Cores'] = []
Smartphones['Battery Capacity'] = []
Smartphones['Price'] = []
Smartphones['URL'] = []
```

```
In [54]: for url in page_url:
    driver.get(url)
    print("Scraping URL = ",url)
    Smartphones['URL'].append(url)
    time.sleep(2)

    try:
        brand_tags = driver.find_element(By.XPATH,"//span[@class='B_NuCI']")
        Smartphones['Brand'].append(brand_tags.text.split()[0])
    except NoSuchElementException :
        Smartphones['Brand'].append('-')

    try:
        read_more = driver.find_element(By.XPATH,"//button[@class='_2KpZ6l _1FH0tX']")
        read_more.click()
    except NoSuchElementException:
        print("Exception occured while moving to next page")

    try:
        name_tags = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][1]/table/tbody/tr[3]/td[2]/ul/li")
        Smartphones['Phone name'].append(name_tags.text)
    except NoSuchElementException:
        Smartphones['Phone name'].append('-')

    try:
        color_tags = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][1]/table/tbody/tr[4]/td[2]/ul/li")
        Smartphones['Colour'].append(color_tags.text)
    except NoSuchElementException:
        Smartphones['Colour'].append('-')

    try:
        ram_tags = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][4]/table[1]/tbody/tr[2]/td[2]/ul/li")
        Smartphones['RAM'].append(ram_tags.text)
    except NoSuchElementException:
        Smartphones['RAM'].append('-')

    try:
        rom = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][4]/table[1]/tbody/tr[1]/td[2]/ul/li")
        Smartphones['Storage(ROM)'].append(rom.text)
    except NoSuchElementException:
        Smartphones['Storage(ROM)'].append('-')

    try:
        pri =driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][5]/table[1]/tbody/tr[2]/td[2]/ul/li")
        Smartphones['Primary Camera'].append(pri.text)
    except NoSuchElementException:
        Smartphones['Primary Camera'].append('-')

    try:
        sec = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][5]/table[1]/tbody/tr[6]/td[1]")
        if sec != 'Secondary Camera' :
            if driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][5]/table[1]/tbody/tr[5]/td[1]").text == "S"
                sec_cam =driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][5]/table[1]/tbody/tr[5]/td[2]/ul
                    raise NoSuchElementException
            else :
                sec_cam = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][5]/table[1]/tbody/tr[6]/td[2]/ul/li
                Smartphones['Secondary Camera'].append(sec_cam.text)
        except NoSuchElementException:
            Smartphones['Secondary Camera'].append('-')

    try:
        disp = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][2]/div")
        if disp.text != 'Display Features' : raise NoSuchElementException
        disp_size = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][2]/table[1]/tbody/tr[1]/td[2]/ul/li")
        Smartphones['Display Size'].append(disp_size.text)
    except NoSuchElementException:
        Smartphones['Display Size'].append('-')

    try:
        disp = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][2]/div")
        if disp.text != 'Display Features' : raise NoSuchElementException
        disp_reso = driver.find_element(By.XPATH,"//div[@class='_3k-BhJ'][2]/table[1]/tbody/tr[2]/td[2]/ul/li")
        Smartphones['Display Resolution'].append(disp_reso.text)
    except NoSuchElementException:
        Smartphones['Display Resolution'].append('-')

    try:
        pro = driver.find_element(By.XPATH,"//table[@class='_14cfVK'][3]/tbody/tr[2]/td[2]/ul/li")
        if pro.text != 'Processor Type' : raise NoSuchElementException
        processor = driver.find_element(By.XPATH,"//table[@class='_14cfVK'][3]/tbody/tr[2]/td[2]/ul/li")
```

```

Smartphones['Processor'].append(processor.text)
except NoSuchElementException:
    Smartphones['Processor'].append('-')

try:
    core = driver.find_element(By.XPATH, '//table[@class="_14cfVK"][3]/tbody/tr[3]/td[2]/ul/li')
    if core.text != 'Processor Core' :
        core = driver.find_element(By.XPATH, '//table[@class="_14cfVK"][3]/tbody/tr[3]/td[2]/ul/li')
        if core.text != 'Processor Core' :
            raise NoSuchElementException
        else :
            cores = driver.find_element(By.XPATH, '//table[@class="_14cfVK"][3]/tbody/tr[3]/td[2]/ul/li')
    else :
        cores = driver.find_element(By.XPATH, '//table[@class="_14cfVK"][3]/tbody/tr[3]/td[2]/ul/li')
    Smartphones['Processor Cores'].append(dispo_reso.text)
except NoSuchElementException:
    Smartphones['Processor Cores'].append('-')

try:
    if driver.find_element(By.XPATH, "///div[@class='_3k-BhJ'][10]/div").text != "Battery & Power Features" :
        if driver.find_element(By.XPATH, "///div[@class='_3k-BhJ'][9]/div").text == "Battery & Power Features" :
            bat_tags = driver.find_element(By.XPATH, "///div[@class='_3k-BhJ'][9]/table/tbody/tr/td[1]")
            if bat_tags.text != "Battery Capacity" : raise NoSuchElementException
            bat_capa = driver.find_element(By.XPATH, "///div[@class='_3k-BhJ'][9]/table/tbody/tr/td[2]/ul/li")
        elif driver.find_element(By.XPATH, "///div[@class='_3k-BhJ'][8]/div").text == "Battery & Power Features" :
            bat_tags = driver.find_element(By.XPATH, "///div[@class='_3k-BhJ'][8]/table/tbody/tr/td[1]")
            if bat_tags.text != "Battery Capacity" : raise NoSuchElementException
            bat_capa = driver.find_element(By.XPATH, "///div[@class='_3k-BhJ'][8]/table/tbody/tr/td[2]/ul/li")
        else:
            raise NoSuchElementException
    else :
        bat_tags = driver.find_element(By.XPATH, "///div[@class='_3k-BhJ'][10]/table/tbody/tr/td[1]")
        if bat_tags.text != "Battery Capacity" : raise NoSuchElementException
        bat_capa = driver.find_element(By.XPATH, "///div[@class='_3k-BhJ'][10]/table/tbody/tr/td[2]/ul/li")
        Smartphones['Battery Capacity'].append(bat_capa.text)
except NoSuchElementException:
    Smartphones['Battery Capacity'].append('-')

try:
    price_tags = driver.find_element(By.XPATH, "///div[@class='_30jeq3 _16Jk6d']")
    Smartphones['Price'].append(price_tags.text)
except NoSuchElementException:
    Smartphones['Price'].append('-')

```

Scraping URL = https://www.flipkart.com/realme-c33-sandy-gold-32-gb/p/itma112335dbe78a?pid=MOBGHBJGF9QZYSZX&lid=LSTM0BGHBJGF9QZYSZXROLVZH&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&spotlightTagId=FkPickId_tyy%2F4io&srno=s_1_1&otracker=search&otracker1=search&fm=Search&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGHBJGF9QZYSZX.SEARCH&ppt=sp&ppn=sp&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

Scraping URL = https://www.flipkart.com/realme-c33-aqua-blue-64-gb/p/itma112335dbe78a?pid=MOBGHBJG3M6FB35G&lid=LSTM0BGHBJG3M6FB35G0CB4ZL&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&srno=s_1_2&otracker=search&otracker1=search&fm=organic&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGHBJG3M6FB35G.SEARCH&ppt=hp&ppn=homepage&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

Scraping URL = https://www.flipkart.com/realme-c33-night-sea-64-gb/p/itma112335dbe78a?pid=MOBGHBJGZ3GYDFD2&lid=LSTM0BGHBJGZ3GYDFD2UJE1AM&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&srno=s_1_3&otracker=search&otracker1=search&fm=organic&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGHBJGZ3GYDFD2.SEARCH&ppt=hp&ppn=homepage&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

Scraping URL = https://www.flipkart.com/realme-c33-sandy-gold-64-gb/p/itma112335dbe78a?pid=MOBGHBJG8NWDGK6T&lid=LSTM0BGHBJG8NWDGK6TYTLTOF&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&srno=s_1_4&otracker=search&otracker1=search&fm=organic&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGHBJG8NWDGK6T.SEARCH&ppt=hp&ppn=homepage&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

Scraping URL = https://www.flipkart.com/realme-c33-aqua-blue-32-gb/p/itma112335dbe78a?pid=MOBGHBJGFKM7MNQH&lid=LSTM0BGHBJGFKM7MNQHMLW6ZM&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&srno=s_1_5&otracker=search&otracker1=search&fm=organic&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGHBJGFKM7MNQH.SEARCH&ppt=hp&ppn=homepage&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

Scraping URL = https://www.flipkart.com/realme-c33-night-sea-32-gb/p/itma112335dbe78a?pid=MOBGHBJGGVPHHTYQ&lid=LSTM0BGHBJGGVPHHTYQPKXLM2&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&srno=s_1_6&otracker=search&otracker1=search&fm=organic&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGHBJGGVPHHTYQ.SEARCH&ppt=hp&ppn=homepage&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

Scraping URL = https://www.flipkart.com/realme-c30-bamboo-green-32-gb/p/itmfcf69b2db5059?pid=MOBGF37GUWGZQYGR&lid=LSTM0BGF37GUWGZQYGRVXRDM1&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&srno=s_1_7&otracker=search&otracker1=search&fm=organic&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGF37GUWGZQYGR.SEARCH&ppt=hp&ppn=homepage&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

Scraping URL = https://www.flipkart.com/realme-c30-denim-black-32-gb/p/itmfcf69b2db5059?pid=MOBGF37G8TGKHFHWJ&lid=LSTM0BGF37G8TGKHFHWJIST95C&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&srno=s_1_8&otracker=search&otracker1=search&fm=organic&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGF37G8TGKHFHWJ.SEARCH&ppt=hp&ppn=homepage&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

Scraping URL = https://www.flipkart.com/realme-c30-lake-blue-32-gb/p/itmfcf69b2db5059?pid=MOBGF37GWT4TGVZM&lid=LSTM0BGF37GWT4TGVZM1IFYZ0&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&srno=s_1_9&otracker=search&otracker1=search&fm=organic&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGF37GWT4TGVZM.SEARCH&ppt=hp&ppn=homepage&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

Scraping URL = https://www.flipkart.com/realme-c30-denim-black-32-gb/p/itmfcf69b2db5059?pid=MOBGF37GMBMYRFBK&lid=LSTM0BGF37GMBMYRFBK60QWPG&marketplace=FLIPKART&q=pixel+4A&store=tyy%2F4io&srno=s_1_10&otracker=search&otracker1=search&fm=organic&iid=3250425c-0259-4938-a46c-a056c99f3631.M0BGF37GMBMYRFBK60QWPG.SEARCH&ppt=hp&ppn=homepage&ssid=3270fobwi80000001684003845199&qH=9b26a23b2cff510d

```
In [57]: df.to_csv("smartphones.csv")
```


In []:

In []:

In []:

In []:

In []:

In []:

```
In [121]: laptop_name = driver.find elements(By.XPATH, "//*[@class='specfpro details cont']/div/div/span/h3")
```

```

for name in laptop_name:
    Laptop_Name.append(name.text)

try:
    op_sys = driver.find_elements(By.XPATH,"//div[@class='product-detail']/div/ul/li[1]/div/div")
    for os in op_sys:
        Operating_sys.append(os.text)
except NoSuchElementException:
    pass

try:
    display = driver.find_elements(By.XPATH,"//div[@class='product-detail']/div/ul/li[2]/div/div")
    for disp in display:
        Display.append(disp.text)
except NoSuchElementException:
    pass

try:
    processor = driver.find_elements(By.XPATH,"//div[@class='Spcs-details'][1]/table/tbody/tr[5]/td[3]")
    for pro in processor:
        Processor.append(pro.text)
except NoSuchElementException:
    pass

try:
    memory = driver.find_elements(By.XPATH,"//div[@class='Spcs-details'][1]/table/tbody/tr[6]/td[3]")
    for memo in memory:
        Memory.append(memo.text)
except NoSuchElementException:
    pass

try:
    weight = driver.find_elements(By.XPATH,"//div[@class='Spcs-details'][1]/table/tbody/tr[7]/td[3]")
    for wgt in weight:
        Weight.append(wgt.text)
except NoSuchElementException:
    pass

try:
    price = driver.find_elements(By.XPATH,"//td[@class='smprice']")
    for pri in price:
        Price.append(pri.text.replace('₹ ', 'Rs'))
except NoSuchElementException:
    pass

try:
    dimension = driver.find_elements(By.XPATH,"//div[@class='Spcs-details'][1]/table/tbody/tr[8]/td[3]")
    for dim in dimension:
        Dimensions.append(dim.text)
except NoSuchElementException:
    pass

try:
    graph = driver.find_elements(By.XPATH,"//div[@class='Spcs-details'][1]/table/tbody/tr[6]/td[3]")
    for gra in graph:
        Graph_proc.append(gra.text)
except NoSuchElementException:
    pass

```

```

In [122]: print(len(Laptop_Name),len(Operating_sys),len(Display),len(Processor),len(Memory),len(Weight),len(Dimensions),len(Price))
7 7 7 7 7 7 7 7

```

```

In [123]: df=pd.DataFrame({'Laptop_Name':Laptop_Name,'Operating_system':Operating_sys,'Memory':Memory,'Weight':Weight,'Dimensions':Dimensions,'Price':Price})
df

```

Out[123]:

	Laptop_Name	Operating_system	Memory	Weight	Dimensions	Graph_processor	Price
0	HP OMEN 17 (2023)	Windows 11 Home	12 GB DDR6 NVIDIA GeForce RTX 4080 Graphics card	397.1 x 262 x 27 mm dimension & 2.78 kg weight	₹ 269,777	12 GB DDR6 NVIDIA GeForce RTX 4080 Graphics card	Rs269,777
1	MSI Titan GT77 12UHS	Windows 11 Home	16 GB DDR6 NVIDIA GeForce RTX 3080Ti Graphics ...	397 x 330 x 23 mm dimension & 3.3 kg weight	₹ 499,990	16 GB DDR6 NVIDIA GeForce RTX 3080Ti Graphics ...	Rs499,990
2	Lenovo Legion 5i Pro	Windows 11 Home	NVIDIA GeForce RTX 3070 Ti Graphics card	359.9 x 264.4 x 19.9 mm dimension & 3.6 kg weight	₹ 218,000	NVIDIA GeForce RTX 3070 Ti Graphics card	Rs218,000
3	ASUS ROG Strix Scar 18 2023	Windows 11 Home	12 GB DDR6 NVIDIA GeForce RTX 4080 Graphics card	294 x 399 x 23 mm dimension & 3.1 kg weight	₹ 279,990	12 GB DDR6 NVIDIA GeForce RTX 4080 Graphics card	Rs279,990
4	Acer Predator Helios Neo 16	Windows 11 Home	8 GB DDR6 NVIDIA GeForce RTX 4060 Graphics card	360 x 279 x 28 mm dimension & 2.6 kg weight	₹ 149,990	8 GB DDR6 NVIDIA GeForce RTX 4060 Graphics card	Rs149,990
5	ASUS ROG Zephyrus G14	Windows 11 Home	8 GB DDR6 AMD Radeon RX 6700S Graphics card	312 x 227 x 19 mm dimension & 1.65 kg weight	₹ 156,990	8 GB DDR6 AMD Radeon RX 6700S Graphics card	Rs156,990
6	MSI Cyborg 15	Windows 11 Home	8 GB DDR6 NVIDIA GeForce RTX 4060 Graphics card	& 1.98 kg weight	₹ 130,990	8 GB DDR6 NVIDIA GeForce RTX 4060 Graphics card	Rs130,990

In [124]:

```
df.to_csv("Gaming_Laptops.csv")
```

In []:

```
driver.close()
```

In []:

8. Write a python program to scrape the details for all billionaires from www.forbes.com. Details to be scrapped: “Rank”, “Name”, “Net worth”, “Age”, “Citizenship”, “Source”, “Industry”.

In []:

In []:

In []:

In [2]:

```
driver=webdriver.Chrome(r'C:/chromedriver.exe')
```

In [3]:

```
driver.get('https://www.forbes.com/')
driver.maximize_window()
time.sleep(2)
```

In [4]:

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

In [5]:

```
blns = driver.find_element(By.XPATH, "/html/body/div[1]/header/nav/div[1]/div[1]/div/div[2]/ul/li[2]/div[1]")
blns.click()
```

In [7]:

```
world_blns=driver.find_element(By.XPATH, '/html/body/div[1]/div[2]/div[1]/header/div[1]/div[1]/div[2]/ul/li[2]/div[1]')
world_blns.click()
```

In [11]:

```
Rank = []
Person_Name = []
Net_worth = []
Age = []
Citizenship = []
Source = []
Industry = []

while (True):

    rank_tag = driver.find_elements(By.XPATH, '//div[@class="TableRow_rowContainer__IC1Tv"]/div/div[2]/div/div/div')
    for rank in rank_tag:
        Rank.append(rank.text)

    name_tag = driver.find_elements(By.XPATH, '//div[@class="TableRow_rowContainer__IC1Tv"]/div/div[2]/div/div/div')
    for name in name_tag:
        Person_Name.append(name.text)
```

```

age_tag = driver.find_elements(By.XPATH, '///div[@class="TableRow_rowContainer__IC1Tv"]/div/div[2]/div/div/div[1]')
for age in age_tag:
    Age.append(age.text)

cit_tag = driver.find_elements(By.XPATH, '///div[@class="TableRow_rowContainer__IC1Tv"]/div/div[2]/div/div/div[2]')
for cit in cit_tag:
    Citizenship.append(cit.text)

sour_tag = driver.find_elements(By.XPATH, '///div[@class="TableRow_rowContainer__IC1Tv"]/div/div[2]/div/div/div[3]')
for sour in sour_tag:
    Source.append(sour.text)

ind_tag = driver.find_elements(By.XPATH, '///div[@class="TableRow_rowContainer__IC1Tv"]/div/div[2]/div/div/div[4]')
for ind in ind_tag:
    Industry.append(ind.text)

net_tag = driver.find_elements(By.XPATH, '///div[@class="TableRow_rowContainer__IC1Tv"]/div/div[2]/div/div/div[5]')
for net in net_tag:
    Net_worth.append(net.text)

try:
    next_button = driver.find_element(By.XPATH, '/html/body/div[1]/div[2]/div[3]/div[2]/div[2]/div[2]/div[2]')
    next_button.click()
except:
    break

```

```

In [14]: Billionaires = pd.DataFrame({})
Billionaires['Rank'] = Rank[:2640]
Billionaires['Name'] = Person_Name[:2640]
Billionaires['Net Worth'] = Net_worth[:2640]
Billionaires['Age'] = Age[:2640]
Billionaires['Citizenship'] = Citizenship[:2640]
Billionaires['Source'] = Source[:2640]
Billionaires['Industry'] = Industry[:2640]
Billionaires

```

Out[14]:

	Rank	Name	Net Worth	Age	Citizenship	Source	Industry	
0	1	Bernard Arnault & family	\$211 B	74	France	LVMH	Fashion & Retail	
1		FULL PROFILE	\$180 B	51	United States	Tesla, SpaceX	Automotive	
2		Bernard Arnault oversees the LVMH empire of 75...	WEALTH HISTORY	\$114 B	59	United States	Amazon	Technology
3	2	Elon Musk	\$107 B	78	United States	Oracle	Technology	
4	3	Jeff Bezos	\$106 B	92	United States	Berkshire Hathaway	Finance & Investments	
...	
2635	2540	Stanley Motta	\$1 B	51	China	Health clinics		
2636	2540	Tyler Perry	\$1 B	80	United States	Beer		
2637	2540	Réal Plourde	\$1 B	60	China	Tyre manufacturing machinery		
2638	2540	Vera Rechulski Santo Domingo	\$1 B	71	China	Real estate		
2639	2540	George Sakellaris	\$1 B	66	Philippines	Diversified		

2640 rows × 7 columns

* - 141 - Billionaires to csv/Forbes_Billionaires.csv

```
In [15]: billionaires.to_csv('Forbes_Billionaires.csv')
driver.close()
```

```
In [ ]:
```

```
In [ ]:
```

9. Write a program to extract at least 500 Comments, Comment upvote and time when comment was posted from any YouTube Video.

```
In [ ]:
```

```
In [60]: driver=webdriver.Chrome(r'C:/chromedriver.exe')
```

```
In [3]: driver.get('https://www.youtube.com/')
driver.maximize_window()
```

```
In [4]: search_bar = driver.find_element(By.XPATH, "//*[@class='ytd-searchbox-spt']/input")
search_bar.send_keys("GOT")
```

```
In [5]: search_btn = driver.find_element(By.ID, "search-icon-legacy")
search_btn.click()
```

```
In [6]: video = driver.find_element(By.XPATH, "//*[@class='style-scope ytd-video-renderer']")
video.click()
```

```
In [11]: for _ in range(1001):
driver.execute_script("window.scrollTo(0,500000)")
```

```
In [12]: comments = []
comment_time = []
Time = []
Likes = []
No_of_Likes = []

com = driver.find_elements(By.XPATH, '//*[@id="content-text"]')
for i in com:
    if i.text is None:
        comments.append("--")
    else:
        comments.append(i.text)

time = driver.find_elements(By.XPATH, "//*[@contains(text(), 'ago')]")
for i in time:
    Time.append(i.text)

for i in range(0, len(Time), 2):
    comment_time.append(Time[i])

like = driver.find_elements(By.XPATH, "//*[@class='style-scope ytd-comment-action-buttons-renderer']")
for i in like:
    Likes.append(i.text)

for i in range(1, len(Likes), 2):
    No_of_Likes.append(Likes[i])
```

```
In [13]: len(comments)
```

```
Out[13]: 1279
```

```
In [14]: print(len(comments), len(comment_time), len(No_of_Likes))
```

```
1279 640 1279
```

```
In [15]: Youtube = pd.DataFrame({})
Youtube['Comment'] = comments[:500]
Youtube['Comment Time'] = comment_time[:500]
Youtube['Comment Upvotes'] = No_of_Likes[:500]
Youtube
```

	Comment	Comment Time	Comment Upvotes
0	Can you imagine if the end had been satisfying...	2 years ago	1.2K
1	This is no trailer, this is a collection of hu...	2 years ago	5.4K
2	When you realize your getting old by knowing t...	2 years ago	1.2K
3	I miss this epic fantasy show... despite all i...	2 years ago	458
4	Game of thrones- An experience of a lifetime. ...	5 months ago	226
...
495	The times change, society shifts. But one thin...	2 years ago (edited)	
496	I wish I could forget the entire series, so I ...	1 year ago	3
497	I'll rooting for Ned Stark to sit on the Iron ...	1 year ago	
498	The realm... Do you know what the realm is?	1 year ago	1K
499	GoT is one the best show ever, with the worst ...	1 year ago	4

```
Youtube.to_csv("Youtube GOT Comments.csv")
```

10. Write a python program to scrape a data for all available Hostels from <https://www.hostelworld.com/> in “London” location. You have to scrape hostel name, distance from city centre, ratings, total reviews, overall reviews, privates from price, dorms from price, facilities and property description

```
driver.get("https://www.hostelworld.com/")
```

```
search = driver.find_element(By.XPATH,"/html/body/div[3]/div/div/div[2]/div[2]/div/div/div[4]/div/div[2]/div/div[2]")
search.send_keys("London")
```

```
In [70]: London = driver.find_element(By.XPATH,"/html/body/div[3]/div/div/div[2]/div[2]/div/div/div[4]/div/div[2]/div/di
London.click()
```

```
In [71]: search_btn = driver.find_element(By.XPATH, '/html/body/div[3]/div/div/div[2]/div[2]/div/div/div[4]/div/div[2]/di  
search_btn.click()
```

```
for i in driver.find_elements(By.XPATH, "//div[@class='pagination-item pagination-current' or @class='pagination-item']"):
    i.click()

try:
    name = driver.find_elements(By.XPATH, "//h2[@class='title title-6']")
    for i in name:
        hostel_name.append(i.text)
except NoSuchElementException:
    hostel_name.append('-')

try:
    dist = driver.find_elements(By.XPATH, "//div[@class='subtitle body-3']//a//span[1]")
    for i in name:
        pass
```



```

        distance.append(i.text.replace('Hostel -', ''))
    except NoSuchElementException:
        distance.append('-')

    for i in driver.find_elements(By.XPATH, "//div[@class='prices-col']"):

        try:
            pvt_price = driver.find_element(By.XPATH, "//a[@class='prices']//div[1]//div")
            pvt_prices.append(pvt_price.text)
        except NoSuchElementException:
            pvt_prices.append('-')

    for i in driver.find_elements(By.XPATH, "//div[@class='prices-col']"):

        try:
            dorms = driver.find_element(By.XPATH, "//a[@class='prices']//div[2]//div")
            dorms_price.append(dorms.text)
        except NoSuchElementException:
            dorms_price.append('-')

    try:
        fac1 = driver.find_elements(By.XPATH, "//div[@class='has-wifi']")
        fac2 = driver.find_elements(By.XPATH, "//div[@class='has-sanitation']")
        for i in fac1:
            for j in fac2:
                facilities.append(i.text + ', ' + j.text)
    except NoSuchElementException:
        facilities.append('-')

    p_url = driver.find_elements(By.XPATH, "//div[@class='prices-col']//a[2]")
    for i in p_url:
        url.append(i.get_attribute("href"))

for i in url:
    driver.get(i)

    try:
        rat = driver.find_element(By.XPATH, "//div[@class='score orange big' or @class='score gray big']")
        rating.append(rat.text)
    except NoSuchElementException:
        rating.append('-')

    try:
        rws = driver.find_element(By.XPATH, "//div[@class='reviews']")
        reviews.append(rws.text.replace('Total Reviews', ''))
    except NoSuchElementException:
        reviews.append('-')

    try:
        overall = driver.find_element(By.XPATH, "//div[@class='keyword']//span")
        over_all.append(overall.text)
    except NoSuchElementException:
        over_all.append('-')

    try:
        disc = driver.find_element(By.XPATH, "//div[@class='content']")
        description.append(disc.text)
    except NoSuchElementException:
        description_all.append('-')

    try:
        driver.find_element(By.XPATH, "//a[@class='toggle-content']").click()
    except NoSuchElementException:
        pass

```

```

In [74]: print(len(hostel_name),
len(distance),
len(pvt_prices),
len(dorms_price),
len(rating),
len(reviews),
len(over_all),
len(facilities),
len(description),

```

```
len(url))
```

0 0 0 0 0 0 0 0 0 0

```
In [75]: Hostel = pd.DataFrame({})
Hostel['Hostel Name'] = hostel_name
Hostel['Distance from City Centre'] = distance
Hostel['Ratings'] = rating
Hostel['Total Reviews'] = reviews
Hostel['Overall Reviews'] = over_all
Hostel['Privates from Price'] = pvt_prices
Hostel['Dorms from Price'] = dorms_price
Hostel['Facilities'] = facilities[:74]
Hostel['Description'] = description
Hostel
```

Out [75]:

Hostel Name	Distance from City Centre	Ratings	Total Reviews	Overall Reviews	Privates from Price	Dorms from Price	Facilities	Description
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```
In [76]: Hostel.to_csv("London_Hostels.csv")
```

```
In [77]: driver.close()
```

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In [ ]:
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In [ ]:
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In [ ]:
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In [ ]:
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