```python
In [1]:   import selenium
          import pandas as pd
          import time
          from bs4 import BeautifulSoup
          from selenium import webdriver
          from selenium.common.exceptions import StaleElementReferenceException, NoSuchElementExce
          import requests
          from selenium.webdriver.common.by import By
          from selenium.webdriver.support.ui import WebDriverWait
          from selenium.webdriver.support import expected_conditions as EC
          import os

          import warnings
          warnings.filterwarnings('ignore')
```

```python
In [2]:   #1. Taking input from user and searching product in website
          driver=webdriver.Chrome()
```

```python
In [3]:   driver.get('https://www.amazon.in/')
```

```python
In [4]:   product= input('Enter name of product')
```
```
          Enter name of productGuitar
```

```python
In [5]:   product_name= driver.find_element(By.ID,"twotabsearchtextbox")
```

```python
In [6]:   product_name.send_keys('Guitar')
```

```python
In [7]:   search=driver.find_element(By.XPATH,"/html/body/div[1]/header/div/div[1]/div[2]/div/form
          search.click()
```

```python
In [80]:  print('**********************************************************************************
```
```
          **********************************************************************************
          ************************
```

```python
In [ ]:   #2. Fetching product URL first
          product_url=[]
          start=0
          end=3

          for page in range(start,end):
              urls=driver.find_elements(By.XPATH,'//div[@class="a-section a-spacing-small puis-pad
              for url in urls:
                  product_url.append(url.get_attribute('href'))
                  print("Appended URL:", url.get_attribute('href'))
              next_button=driver.find_element(By.XPATH,"/html/body/div[1]/div[1]/div[1]/div[1]/div
              next_button.click()
              time.sleep(2)
              print("Finished processing page", page)
```

```python
In [9]:   len(product_url)
```
```
Out[9]:   180
```

```python
In [10]:  #Creating empty list and appending values in the list

          for url in product_url:
              driver.get(url)
              time.sleep(3)
```

```
brand = []
product = []
price = []
exchange = []
expected_delivery = []
availability = []
ProductURL = []
```

In [13]:
```python
for url in product_url:
    driver.get(url)
    time.sleep(3)

    try:
        brand_n=driver.find_element(By.XPATH,"/html/body/div[2]/div/div[5]/div[3]/div[4]
        brand.append(brand_n.text)
    except NoSuchElementException:
        brand.append('--------')

    try:
        product_name=driver.find_element(By.XPATH,"/html/body/div[2]/div/div[5]/div[3]/d
        product.append(product_name.text)
    except NoSuchElementException:
        product.append('--------')

    try:
        product_price=driver.find_element(By.XPATH,"/html/body/div[2]/div/div[5]/div[3]/
        price.append(product_price.text)
    except NoSuchElementException:
        price.append('--------')


    try:
        delivery=driver.find_element(By.XPATH,"/html/body/div[2]/div/div[5]/div[3]/div[1
        expected_delivery.append(delivery.text)
    except NoSuchElementException:
        expected_delivery.append('--------')

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

In [36]:
```python
brand=brand[0:180]
product=product[0:180]
price=price[0:180]
availability=availability[0:180]
expected_delivery=expected_delivery[0:180]
```

In [37]:
```python
data = {
    'Brand': brand,
    'Product': product,
    'Price': price,
```

```
        'Availability': availability,
        'Delivery': expected_delivery
            }
```

In [38]:
```
df = pd.DataFrame(data)
```

In [ ]:
```
df.to_csv('List.csv', index=False)
```

In [39]:
```
df
```

Out[39]:

	Brand	Product	Price	Availability	Delivery
0	Intern	Intern INT-38C Acoustic Guitar Kit (Blue)	---------	In stock	FREE delivery Tuesday, 26 December. Order with...
1	Intern	Intern INT-38C Acoustic Guitar Kit (Blue)	---------	In stock	FREE delivery Tuesday, 26 December. Order with...
2	Kadence	Kadence Frontier guitar with Online Guitar lea...	---------	In stock	FREE delivery Wednesday, 27 December. Details
3	VAULT	Vault DA20 Dreadnought Acoustic Guitar With Gi...	---------	In stock	FREE delivery Monday, 25 December. Order withi...
4	--------	--------	---------	In stock	--------
...	...	...	...	...	...
175	VAULT	Vault ST1 Premium Electric Guitar - Black	---------	--------	FREE delivery Tuesday, 26 December. Order with...
176	--------	--------	---------	--------	--------
177	--------	--------	---------	--------	--------
178	--------	--------	---------	--------	--------
179	--------	--------	---------	In stock	--------

180 rows × 5 columns

In [40]:
```
print('exchange element is not available')
```

exchange element is not available

In [2]:
```
print('*************************************END*************************************')
```

*************************************END*************************************

In [10]:

In [46]:
```
#3
print ("****DOWNLOADING IMAGES OF FRUITS********")
```

****DOWNLOADING IMAGES OF FRUITS********

In [32]:
```
driver.get('https://images.google.com/')
```

In [33]:
```
search_bar=driver.find_element(By.NAME,"q")
search_bar.send_keys("fruits")
```

```
In [34]:   search_button=driver.find_element(By.XPATH,"/html/body/div[1]/div[3]/form/div[1]/div[1]/
           search_button.click()
```

```
In [44]:   for _ in range(2):
               driver.execute_script("window.scrollBy(0,1000)")

           images = driver.find_elements(By.XPATH, '//img[@class="rg_i Q4LuWd"]')

           img_urls = []
           for image in images:
               source = image.get_attribute('src')
               if source is not None and source[0:4] == 'http':
                   img_urls.append(source)
           for i in range(len(img_urls)):
               if i > 10:
                   break
```

```
In [53]:   print( img_urls[0:10])
```

```
['https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQf0wspC0tdJVSIyDCoj-L97EVsBHRhtu
PjlA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQfWCO85BV8I3eQLWr
vhPGpuSYGPu_z0hFuDw&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQv
lU1EPvFsnxajWjn8Ys0KNiphTHKkY7TXdA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/image
s?q=tbn:ANd9GcTT6kwuFdtWm4PJgVwkWRr3PXxeDPK__w6EJg&usqp=CAU', 'https://encrypted-tbn0.gs
tatic.com/images?q=tbn:ANd9GcSaxfbswq6Y33m-49_iDXlvdYHI_3ux83ZQ8w&usqp=CAU', 'https://en
crypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRyvxcoVbOUgajdKTgglGInKQz7_FRa4AZNsg&usqp=CA
U', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTDa3avPop7M7KH3je8hmAfQriISX9
EHPAWVA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQJOXtvD2gKgYxB
TR7HvugoAFpwYlbkGPJK7w&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9G
cRMwjK_-B_A1isSaozsCiPZZ7d4jqEB_xpNWQ&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/ima
ges?q=tbn:ANd9GcSiabTcCMmn_18aCdFF0U7c_FU5zQgVruph9A&usqp=CAU']
```

```
In [47]:   print ("****DOWNLOADING IMAGES OF CARS********")
```

```
****DOWNLOADING IMAGES OF CARS********
```

```
In [48]:   driver.get('https://images.google.com/')
```

```
In [49]:   search_bar=driver.find_element(By.NAME,"q")
           search_bar.send_keys("cars")
```

```
In [50]:   search_button=driver.find_element(By.XPATH,"/html/body/div[1]/div[3]/form/div[1]/div[1]/
           search_button.click()
```

```
In [51]:   for _ in range(2):
               driver.execute_script("window.scrollBy(0,1000)")

           images = driver.find_elements(By.XPATH,'//img[@class="rg_i Q4LuWd"]')

           img_urls = []
           for image in images:
               source = image.get_attribute('src')
               if source is not None and source[0:4] == 'http':
                   img_urls.append(source)
           for i in range(len(img_urls)):
               if i > 10:
                   break
```

```
In [54]:   print(img_urls[0:10])
```

```
['https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQf0wspC0tdJVSIyDCoj-L97EVsBHRhtu
PjlA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQfWCO85BV8I3eQLWr
vhPGpuSYGPu_z0hFuDw&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQv
```

lU1EPvFsnxajWjn8Ys0KNiphTHKkY7TXdA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTT6kwuFdtWm4PJgVwkWRr3PXxeDPK__w6EJg&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSaxfbswq6Y33m-49_iDXlvdYHI_3ux83ZQ8w&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRyvxcoVbOUgajdKTgglGInKQz7_FRa4AZNsg&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTDa3avPop7M7KH3je8hmAfQriISX9EHPAWVA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQJOXtvD2gKgYxBTR7HvugoAFpwYlbkGPJK7w&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRMwjK_-B_A1isSaozsCiPZZ7d4jqEB_xpNWQ&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSiabTcCMmn_18aCdFF0U7c_FU5zQgVruph9A&usqp=CAU']

In [55]:
```python
print ("****DOWNLOADING IMAGES OF CAKES********")
```

****DOWNLOADING IMAGES OF CAKES********

In [56]:
```python
driver.get('https://images.google.com/')
```

In [57]:
```python
search_bar=driver.find_element(By.NAME,"q")
search_bar.send_keys("cakes")
```

In [58]:
```python
search_button=driver.find_element(By.XPATH,"/html/body/div[1]/div[3]/form/div[1]/div[1]/
search_button.click()
```

In [59]:
```python
for _ in range(2):
    driver.execute_script("window.scrollBy(0,1000)")

images = driver.find_elements(By.XPATH,'//img[@class="rg_i Q4LuWd"]')

img_urls = []
for image in images:
    source = image.get_attribute('src')
    if source is not None and source[0:4] == 'http':
        img_urls.append(source)
for i in range(len(img_urls)):
    if i > 10:
        break
```

In [60]:
```python
print(img_urls[0:10])
```

['https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTbngjFw7cGhkPYydLabFXvg0f4CSDMFpLdwQ&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTwSUC7d7LAY7SvHUz339wBJ_xGf3fH75VeUg&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQjIMRwkqddCEMxfDlqN3Un47R5RNeJm7rH9w&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQSZIggclFXvbpMmeRZC4KcdRoN8DWaYDgkuA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQBnfTXs9DpaPffvPTpjsS2XrGmEqiS1PebKA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQkvQOT345BN0NHP7F5mpY5sELIPCQJEIsRHA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTzVvNmcG6XK_Jz4tXh6SA-3wfxxgKLZ-g8KA&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQgJasg0mb7dZzo0wcAgb9gpChnKYba8lzmbg&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSUdCQUcY-uyLKzurJ0A4yOZcP-ozZVgC3v8w&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQSlqaB8kiJd9BzLgSn3Ab_h_Ht7B-4cnH5JA&usqp=CAU']

In [61]:
```python
print ("****DOWNLOADING IMAGES OF MACHINE LEARNING********")
```

****DOWNLOADING IMAGES OF MACHINE LEARNING********

In [62]:
```python
driver.get('https://images.google.com/')
```

In [63]:
```python
search_bar=driver.find_element(By.NAME,"q")
search_bar.send_keys("machine learning")
```

In [64]:
```python
search_button=driver.find_element(By.XPATH,"/html/body/div[1]/div[3]/form/div[1]/div[1]/
search_button.click()
```

```
In [65]: for _ in range(2):
             driver.execute_script("window.scrollBy(0,1000)")

         images = driver.find_elements(By.XPATH,'//img[@class="rg_i Q4LuWd"]')

         img_urls = []
         for image in images:
             source = image.get_attribute('src')
             if source is not None and source[0:4] == 'http':
                 img_urls.append(source)
         for i in range(len(img_urls)):
             if i > 10:
                 break
```

```
In [66]: print(img_urls[0:10])
```

['https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcT7KL2kPAMq0X-9bGOUACqdHyDz8AxmPg
asaQ&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcT1WWL7wLGuheM9I5h
Ip4pgMt_8w_cggJslng&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTU
l9TLrma6CCBhwSjXH7jE4gqUZqiy0Bb2Rw&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/image
s?q=tbn:ANd9GcQBVJp_zU1HkNMX33wivGAR3twMdiTNXqAW8w&usqp=CAU', 'https://encrypted-tbn0.gs
tatic.com/images?q=tbn:ANd9GcRqM6S5aFfZZecyGoYgCXAHHvs57FhHA9EDJg&usqp=CAU', 'https://en
crypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSGN6aWl4VRifTOYfsLdhU9vKxFZjyLb5D97A&usqp=CA
U', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTjyHA0z64Zo0Ovz0X6MSIoyjqPYkU
VHYFgoQ&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTk9ML9qHDH4NCe
E8ZHjJOJHouHRgoOfGG9Hg&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9G
cS3W2zALlFr5MMUg2eFukFBLIILJSLklQrSfw&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/ima
ges?q=tbn:ANd9GcQ-L5qb4S-8PiD4yjsSRoP4hy5CQik8XxSIKw&usqp=CAU']

```
In [67]: print ("****DOWNLOADING IMAGES OF GUITAR********")
```

****DOWNLOADING IMAGES OF GUITAR********

```
In [68]: driver.get('https://images.google.com/')
```

```
In [69]: search_bar=driver.find_element(By.NAME,"q")
         search_bar.send_keys("guitar")
```

```
In [70]: search_button=driver.find_element(By.XPATH,"/html/body/div[1]/div[3]/form/div[1]/div[1]/
         search_button.click()
```

```
In [71]: for _ in range(2):
             driver.execute_script("window.scrollBy(0,1000)")

         images = driver.find_elements(By.XPATH,'//img[@class="rg_i Q4LuWd"]')

         img_urls = []
         for image in images:
             source = image.get_attribute('src')
             if source is not None and source[0:4] == 'http':
                 img_urls.append(source)
         for i in range(len(img_urls)):
             if i > 10:
                 break
```

```
In [72]: print(img_urls[0:10])
```

['https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTjQcDEGsCPHBOZrVjZLaj02_ZVm1T7tA
mHYg&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcScZK3-XI5moPuKJ2L
jEzcjMX0oKNJC3BCrJQ&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSD
tQNqVFET53tokgGqDlaV_Tkl62lzYgkAPw&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/image
s?q=tbn:ANd9GcRcVxgaRgghC63nA2ncnnoQ7eYGL-36FIoxvg&usqp=CAU', 'https://encrypted-tbn0.gs
tatic.com/images?q=tbn:ANd9GcSy0yFekydhpkm5RiaP18D-aRILu2DHpNkzEQ&usqp=CAU', 'https://en
crypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSgIDSSLaV72bv-cunbXYIw6SeUGctfGI0kaQ&usqp=CA

```
U', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTvYIXoM1kLZyLRRb61chOJ7W-9DfC
YwMsQRg&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSEoYDh3-OKkwgn
MNFxjH9aAMkOtFZ03KTUbQ&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9G
cSwAdoibk7daqIitkwbiCy7idVeQE3UAqzD_Q&usqp=CAU', 'https://encrypted-tbn0.gstatic.com/ima
ges?q=tbn:ANd9GcTWdqwh-qAr8pzeUDy7v5VAvflrguv-AcEzGw&usqp=CAU']
```

In [73]:
```python
print('**********************************************************************************
**********************************************************************************
***************************')
```

In [3]:
```python
#5.
driver.get("https://maps.google.com")
```

In [6]:
```python
search_bar=driver.find_element(By.XPATH,'//input[@jslog="11886"]')
search_bar.send_keys('Kolkata')
```

In [8]:
```python
search_button = driver.find_element(By.XPATH,'//button[@class="mL3xi google-symbols"]')
search_button.click()
```

In [9]:
```python
url_string = driver.current_url
```

In [10]:
```python
url_string
```

Out[10]:
```
'https://www.google.com/maps/place/Kolkata,+West+Bengal/@22.5356606,88.1825389,11z/data
=!3m1!4b1!4m6!3m5!1s0x39f882db4908f667:0x43e330e68f6c2cbc!8m2!3d22.572646!4d88.363895!16
zL20vMGN2dzk?entry=ttu'
```

In [12]:
```python
print("URL:", url_string)
```
```
URL: https://www.google.com/maps/place/Kolkata,+West+Bengal/@22.5356606,88.1825389,11z/d
ata=!3m1!4b1!4m6!3m5!1s0x39f882db4908f667:0x43e330e68f6c2cbc!8m2!3d22.572646!4d88.36389
5!16zL20vMGN2dzk?entry=ttu
```

In [20]:
```python
try:
    url = url_string
    lat_lng = url.split('@')[1].split(',')[0:2]
    latitude = lat_lng[0]
    longitude = lat_lng[1]
    print(f"Latitude: {latitude}, Longitude: {longitude}")
except Exception as e:
    print("Failed to extract coordinates:", e)
```
```
Latitude: 22.5356606, Longitude: 88.1825389
```

In [21]:
```python
print("******Latitude and longitude for Kolkata : ******", latitude, longitude)
```
```
******Latitude and longitude for Kolkata : ****** 22.5356606 88.1825389
```

In [23]:
```python
print('**********************************************************************************
**********************************************************************************
********************')
```

In [69]:
```python
#7.
driver.get("https://www.forbes.com/billionaires/")
```

In [80]:
```python
driver.execute_script("window.scrollBy(0,1000)")

rank_element = []
name_element = []
networth_element = []
age_element = []
country_element = []
category_element = []
```

```
In [81]: try:
             rank_elements = driver.find_elements(By.XPATH,'//div[@class="Table_rank___YBhk Table
             for i in rank_elements:
                 rank = i.text
                 rank_element.append(rank)
         except NoSuchElementException as e:
             print("Exception Raised:",e)
```

```
In [82]: try:
             name_elements = driver.find_elements(By.XPATH,'//div[@class="TableRow_cell__db-hv Ta
             for i in name_elements:
                 name = i.text
                 name_element.append(name)
         except NoSuchElementException as e:
             print("Exception Raised:",e)
```

```
In [83]: try:
             networth_elements = driver.find_elements(By.XPATH,'//div[@class="Table_netWorth___L4
             for i in networth_elements:
                 networth = i.text
                 networth_element.append(networth)
         except NoSuchElementException as e:
             print("Exception Raised:",e)
```

```
In [84]: try:
             age_elements = driver.find_elements(By.XPATH,'//div[@class="TableRow_cell__db-hv Tab
             for i in age_elements:
                 age = i.text
                 age_element.append(age)
         except NoSuchElementException as e:
             print("Exception Raised:",e)
```

```
In [85]: try:
             country_elements = driver.find_elements(By.XPATH,'//div[@class="TableRow_cell__db-hv
             for i in country_elements:
                 country = i.text
                 country_element.append(country)
         except NoSuchElementException as e:
             print("Exception Raised:",e)
```

```
In [86]: try:
             category_elements = driver.find_elements(By.XPATH,'//div[@class="TableRow_cell__db-h
             for i in category_elements:
                 category = i.text
                 category_element.append(category)
         except NoSuchElementException as e:
             print("Exception Raised:",e)
```

```
In [87]: data = {
```

```python
        'Name': name_element,
        'Networth': networth_element,
        'Age': age_element,
        'Rank': rank_element,
        'Country': country_element,
        'Category': category_elements
        }
```

In [88]:
```python
df = pd.DataFrame(data)
```

In [89]:
```python
df
```

Out[89]:

	Name	Networth	Age	Rank	Country	Category
0	Bernard Arnault & family	$211 B	74	1	France	<selenium.webdriver.remote.webelement.WebEleme...
1	Elon Musk	$180 B	51	2	United States	<selenium.webdriver.remote.webelement.WebEleme...
2	Jeff Bezos	$114 B	59	3	United States	<selenium.webdriver.remote.webelement.WebEleme...
3	Larry Ellison	$107 B	78	4	United States	<selenium.webdriver.remote.webelement.WebEleme...
4	Warren Buffett	$106 B	92	5	United States	<selenium.webdriver.remote.webelement.WebEleme...
...	...	...	...	...	...	...
195	Jin Baofang	$9.6 B	70	195	China	<selenium.webdriver.remote.webelement.WebEleme...
196	Luo Liguo & family	$9.6 B	67	195	China	<selenium.webdriver.remote.webelement.WebEleme...
197	Marijke Mars	$9.6 B	58	195	United States	<selenium.webdriver.remote.webelement.WebEleme...
198	Pamela Mars	$9.6 B	62	195	United States	<selenium.webdriver.remote.webelement.WebEleme...
199	Valerie Mars	$9.6 B	64	195	United States	<selenium.webdriver.remote.webelement.WebEleme...

200 rows × 6 columns

In [90]:
```python
print('*****************************************************************************************
*****************************************************************************************
***********************')
```

In [91]:
```python
#8.
driver.get("https://youtube.com")
```

In [92]:
```python
video_url = "https://www.youtube.com/watch?v=PmdyY38g6Rg"
driver.get(video_url)
time.sleep(5)
```

In [118...]:
```python
Comment=[]
try:
    comment_element=driver.find_elements(By.XPATH,'//div[@class="style-scope ytd-comment
    for i in comment_element[0:300]:
        comment=i.text
        Comment.append(comment)
except NoSuchElementException as e:
```

```
        print("Exception Raised:",e)
```

In [119... `len(Comment)`

Out[119]: 500

In [124...
```
Upvote=[]
try:
    upvote_element = driver.find_elements(By.CSS_SELECTOR, '#vote-count-middle')
    for i in upvote_element[0:500]:
        upvote=i.text
        Upvote.append(upvote)
except NoSuchElementException as e:
    print("Exception Raised:",e)
```

In [125... `len(Upvote)`

Out[125]: 500

In [126...
```
Time_posted=[]
try:
    time_element = driver.find_elements(By.CSS_SELECTOR, 'yt-formatted-string.published-
    for i in time_element[0:500]:
        time=i.text
        Time_posted.append(time)
except NoSuchElementException as e:
    print("Exception Raised:",e)
```

In [127... `len(Time_posted)`

Out[127]: 500

In [128...
```
data = {
    'Comment': Comment,
    'Upvote': Upvote,
    'Time Posted': Time_posted,
    }
```

In [130... `df=pd.DataFrame(data)`

In [131... `df`

Out[131]:

	Comment	Upvote	Time Posted
0	Lord Bobby spent his whole life to be a hero a...	3.1K	1 day ago
1	I experienced it in theatres and believe me no...	1.3K	1 day ago
2	Bobby Deol deserves heartfelt appreciation for...	686	1 day ago
3	Song	717	23 hours ago
4	This is not just a BGM it's the vibe that gave...	323	1 day ago
...	...	...	...
495	#1 trending		11 hours ago
496	Man in theaters it gives different vibes but i...	94	2 days ago
497	All hail lord Bobby's supremacy	1	8 hours ago
498	Lord bobby		1 day ago

500 rows × 3 columns

```
In [132...  print('******************************************************************
           ********************************************************************
           *********************
```

```
In [216...  #9.
           driver.get('https://www.hostelworld.com/')
```

```
In [217...  search_bar=driver.find_element(By.XPATH, '//input[@class="native-input"]')
```

```
In [218...  search_bar.send_keys('London')
```

```
In [219...  search_button=driver.find_element(By.XPATH,"/html/body/div[3]/div/div/div[2]/div[2]/div[
           search_button.click()
```

```
In [220...  #Fetching product URL first
           hostel_urls = []
           start = 0
           end = 1

           for page in range(start, end):
               print("Getting URLs from page", page)
               urls = driver.find_elements(By.XPATH, '//div[@class="property-card"]//a')
               for url in urls:
                   hostle_urls.append(url.get_attribute('href'))
                   print("Appended URL:", url.get_attribute('href'))
                   time.sleep(2)
               print("Finished processing page", page)
```

```
Getting URLs from page 0
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Wombat-s-City-Hostel-Lon
don/London/88047?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Wombat's%20City%20Hoste
l%20London/London/88047?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/St-Christopher-s-Villag
e/London/502?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/St%20Christopher's%20Vil
lage/London/502?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Palmers-Lodge-Swiss-Cott
age/London/14348?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Palmers%20Lodge%20-%20Sw
iss%20Cottage/London/14348?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Wombat-s-City-Hostel-Lon
don/London/88047?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Wombat's%20City%20Hoste
l%20London/London/88047?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/St-Christopher-s-Villag
e/London/502?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/St%20Christopher's%20Vil
lage/London/502?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Onefam-Notting-Hill/Lond
on/291433?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Onefam%20Notting%20Hill/
London/291433?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Palmers-Lodge-Swiss-Cott
age/London/14348?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Palmers%20Lodge%20-%20Sw
iss%20Cottage/London/14348?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Urbany-Hostel-London/Lon
```

don/303427?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Urbany%20Hostel%20Londo
n/London/303427?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Generator-London/London/
510?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Generator%20London/Londo
n/510?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Safestay-London-Elephant
-Castle/London/55551?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Safestay%20London%20Elep
hant%20&%20Castle/London/55551?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Astor-Hyde-Park/London/2
5678?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Astor%20Hyde%20Park/Lond
on/25678?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/NX-London-Hostel/London/
15204?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/NX%20London%20Hostel/Lon
don/15204?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Astor-Museum-Inn/London/
520?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Astor%20Museum%20Inn/Lon
don/520?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Safestay-London-Kensingt
on-Holland-Park/London/93920?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Safestay%20London%20Kens
ington%20Holland%20Park/London/93920?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Clink261/London/516?from
=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Clink261/London/516?from
=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/No-8-Willesden-Hostel-Lo
ndon/London/18420?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/No.8%20Willesden%20Hoste
l%20London/London/18420?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Smart-Russell-Square-Hos
tel/London/29412?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Smart%20Russell%20Squar
e%20Hostel/London/29412?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Queen-Elizabeth-Chelsea/
London/50443?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Queen%20Elizabeth%20Chel
sea/London/50443?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Destinations-Hostels-The
-Gallery/London/314563?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Destinations%20Hostels%2
0@%20The%20Gallery/London/314563?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Hostelle-women-only-host
el-London/London/316723?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Hostelle%20-%20women%20o
nly%20hostel%20London/London/316723?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/No-8-Seven-Sisters/Londo
n/91108?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/No.8%20Seven%20Sisters/L
ondon/91108?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Phoenix-Hostel/London/48
221?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Phoenix%20Hostel/London/
48221?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Smart-Hyde-Park-Inn-Host
el/London/517?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Smart%20Hyde%20Park%20In
n%20Hostel/London/517?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/St-Christopher-s-Hammers
mith/London/20976?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/St%20Christopher's%20Ham

mersmith/London/20976?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/YHA-London-Oxford-Stree
t/London/6996?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/YHA%20London%20Oxford%20
Street/London/6996?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Prime-Backpackers-Angel/
London/93902?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Prime%20Backpackers%20An
gel/London/93902?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Astor-Victoria/London/52
4?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Astor%20Victoria/London/
524?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Kabannas-London-St-Pancr
as/London/7010?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Kabannas%20London%20St%2
0Pancras/London/7010?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Saint-James-Backpackers/
London/70909?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Saint%20James%20Backpack
ers/London/70909?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Astor-Kensington/London/
523?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Astor%20Kensington/Londo
n/523?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Pickwick-Hall/London/750
2?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Pickwick%20Hall/London/7
502?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/St-Christopher-s-Inn-Lon
don-Bridge/London/503?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/St%20Christopher's%20In
n%20-%20London%20Bridge/London/503?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Onefam-Waterloo/London/3
9493?from=2023-12-20&to=2023-12-23&guests=2
Appended URL: https://www.hostelworld.com/pwa/hosteldetails.php/Onefam%20Waterloo/Londo
n/39493?from=2023-12-20&to=2023-12-23&guests=2
Finished processing page 0

In [222…

```python
#Creating empty list

for url in hostel_urls:
    driver.get(url)
    time.sleep(2)

hostel_name=[]
distance=[]
ratings=[]
total_review=[]
overall_review=[]
privates_price=[]
dorm_price=[]
facility=[]
property_description=[]
```

In [223…

```python
#Appending values
for url in hostel_urls:
    driver.get(url)
    time.sleep(2)

    try:
        name_element = driver.find_elements(By.XPATH, '//div[@class="title-2"]')
        hostel_name.append(name_element.text)
    except NoSuchElementException:
        hostel_name.append('N/A')
```

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

              try:
                  overallreview_element = driver.find_elements(By.XPATH, '//div[@class="keyword"]')
                  overall_review.append(overallreview_element.text)
              except NoSuchElementException:
                  overall_review.append('N/A')


In [68]:  for url in hostel_urls:
              driver.get(url)
              time.sleep(2)

              try:
                  privatesprice_element = driver.find_elements(By.XPATH, '//div[@class="price"]')
                  privates_price.append(privatesprice_element.text)
              except NoSuchElementException:
                  privates_price.append('N/A')


In [69]:  for url in hostel_urls:
              driver.get(url)
              time.sleep(2)

              try:
                  dormprice_element = driver.find_elements(By.XPATH, '//div[@class="price"]')
                  dorm_price.append(dormprice_element.text)
              except NoSuchElementException:
                  dorm_price.append('N/A')


In [70]:  for url in hostel_urls:
              driver.get(url)
              time.sleep(2)

              try:
                  facility_element = driver.find_elements(By.XPATH, '//ul[@class="facility-sections"]/
                  facility.append(facility_element.text)
              except NoSuchElementException:
                  facility.append('N/A')


In [71]:  for url in hostel_urls:
              driver.get(url)
              time.sleep(2)

              try:
                  propertydescription_element = driver.find_elements(By.XPATH, '//div[@class="content
                  property_description.append(propertydescription_element.text)
              except NoSuchElementException:
                  property_description.append('N/A')


In [75]:  hostel_name= hostel_name[0:20]
          ratings=ratings[0:20]
```

```
        total_review=total_review[0:20]
        overall_review=overall_review[0:20]
        privates_price=privates_price[0:20]
        dorm_price=dorm_price[0:20]
        facility=facility[0:20]
        property_description=property_description[0:20]
```

In [76]:
```python
#Creating data frame
data = {
    'Hostel Name': hostel_name,
    'Ratings': ratings,
    'Total Review': total_review,
    'Overall Review': overall_review,
    'Privates Price': privates_price,
    'Dorm Price': dorm_price,
    'Facility': facility,
    'Property Description': property_description
        }
```

In [ ]:
```python
df = pd.DataFrame(data)
```

In [78]:
```python
print('****************************************************************************
```

```
****************************************************************************************
************************
```

In [97]:
```python
#6.
driver.get('https://digit.in/laptops')
```

In [151…
```python
driver.get('https://www.digit.in/top-products/best-amd-gaming-laptop-with-nvidia-geforce
```

In [152…
```python
#Fetching urls
laptop_urls = []
start = 0
end = 1

for page in range(start, end):

    print("Getting URLs from page", page)
    urls = driver.find_elements(By.XPATH,'//h3[@class="font130 mt0 mb10 mobilesblockdisp
    for url in urls:
        laptop_urls.append(url.get_attribute('href'))
        print("Appended URL:", url.get_attribute('href'))
        time.sleep(2)
    print("Finished processing page", page)
```

```
Getting URLs from page 0
Appended URL: https://www.digit.in/laptops/acer-nitro-5-an515-45-nh-qbcsi-002-ryzen-7-58
00h-2021-price-295855.html
Appended URL: https://www.digit.in/laptops/hp-victus-ryzen-7-5800h-2022-price-267139.htm
l
Appended URL: https://www.digit.in/laptops/lenovo-legion-5-5th-gen-amd-ryzen-7-5800h-202
1-price-288295.html
Appended URL: https://www.digit.in/laptops/dell-alienware-m15-r5-gaming-ryzen-r7-5800h-2
022-price-288001.html
Finished processing page 0
```

In [207…
```python
#Creating empty list
for url in laptop_urls:
    driver.get(url)
    time.sleep(2)

brand = []
processor = []
```

```python
display = []
os = []
memory = []
graphic = []
price = []
```

```python
#Extracting data
for url in laptop_urls:
    driver.get(url)
    driver.execute_script("window.scrollBy(0,1000)")
    time.sleep(2)

    try:
        processor_element = driver.find_element(By.XPATH,'/html/body/div[2]/div[3]/div[1
    except NoSuchElementException:
        processor.append('N/A')

    try:
        os_element = driver.find_element(By.XPATH,'/html/body/div[2]/div[3]/div[1]/div/d
        os.append(os_element.text)
    except NoSuchElementException:
        os.append('N/A')

    try:
        display_element = driver.find_element(By.XPATH,'/html/body/div[2]/div[3]/div[1]/
        display.append(display_element.text)
    except NoSuchElementException:
        display.append('N/A')

    try:
        brand_element = driver.find_element(By.XPATH, '//h1[@class="floatleft tabletbloc
        brand.append(brand_element.text)
    except NoSuchElementException:
        brand.append('N/A')
```

```python
for url in laptop_urls:
    driver.get(url)
    driver.execute_script("window.scrollBy(0,1000)")
    time.sleep(2)

    try:
        memory_element = driver.find_element(By.XPATH,'/html/body/div[2]/div[3]/div[1]/d
        memory.append(memory_element.text)
    except NoSuchElementException:
        memory.append('N/A')

    try:
        graphic_element = driver.find_element(By.XPATH,'/html/body/div[2]/div[3]/div[1]/
        graphic.append(graphic_element.text)
    except NoSuchElementException:
        graphic.append('N/A')

    try:
        price_element = driver.find_element(By.XPATH,'/html/body/div[2]/div[3]/div[1]/di
        price.append(price_element.text)
    except NoSuchElementException:
        price.append('N/A')
```

```
In [212...  #Creating dataframe
            data = {
                'Memory': memory,
                'Graphic': graphic,
                'Price': price,
                'OS': os,
                'Brand': brand,
                'Display': display,
                 }
```

```
In [213...  df = pd.DataFrame(data)
```

```
In [214...  df
```

Out[214]:

	Memory	Graphic	Price	OS	Brand	Display
0	N/A	N/A	N/A	Windows 10 Home	Acer Nitro 5 AN515-45 NH.QBCSI.002 Ryzen 7-580...	15.6
1	1 TB	NVIDIA GeForce RTX 3060	₹114,990.00	N/A	HP Victus 16-E0362ax 5th Gen Ryzen 7-5800H (2022)	N/A
2	N/A	N/A	N/A	N/A	Lenovo Legion 5 82JU010NIN 5th Gen Ryzen 7-5800H	N/A
3	512 GB	NVIDIA GeForce RTX 3060	₹164,990.00	Windows 11 Home	DELL ALIENWARE M15 R5 GAMING Ryzen R7-5800H (2...	15.6

```
In [215...  print('******************************************************************************
```

```
         ********************************************************************************
         ***************************
```

```
In [3]:  #4.
         driver.get("https://www.flipkart.com/")
```

```
In [6]:  search_bar=driver.find_element(By.XPATH,"/html/body/div[1]/div/div[1]/div/div/div/div/di
```

```
In [7]:  search_bar.send_keys('Oneplus Nord')
```

```
In [8]:  search_button=driver.find_element(By.XPATH,"/html/body/div[1]/div/div[1]/div/div/div/div
         search_button.click()
```

```
In [9]:  mobile_urls = []
         start = 0
         end = 1

         for page in range(start, end):
             print("Getting URLs from page", page)
             urls = driver.find_elements(By.XPATH,'//a[@class="_1fQZEK"]')
             for url in urls:
                 mobile_urls.append(url.get_attribute('href'))
                 print("Appended URL:", url.get_attribute('href'))
                 time.sleep(2)
             print("Finished processing page", page)
```

```
         Getting URLs from page 0
         Appended URL: https://www.flipkart.com/oneplus-nord-ce-2-lite-5g-blue-tide-128-gb/p/itm7
         acae55b999e6?pid=MOBGMFREBAHZQGY9&lid=LSTMOBGMFREBAHZQGY9EG6XMP&marketplace=FLIPKART&q=O
         neplus+Nord&store=tyy%2F4io&spotlightTagId=BestsellerId_tyy%2F4io&srno=s_1_1&otracker=se
         arch&otracker1=search&fm=Search&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGMFREBAHZQGY
         9.SEARCH&ppt=sp&ppn=sp&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074
         Appended URL: https://www.flipkart.com/oneplus-nord-ce-2-lite-5g-black-dusk-128-gb/p/itm
```

537fc2aa73747?pid=MOBGHBZHB7YJT5HF&lid=LSTMOBGHBZHB7YJT5HFE2B7VV&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_2&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGHBZHB7YJT5HF.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-pastel-lime-256-gb/p/itm2cd5a4e659035?pid=MOBGZJ3ZFQ8AKKRS&lid=LSTMOBGZJ3ZFQ8AKKRSDHXFLS&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_3&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGZJ3ZFQ8AKKRS.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-pastel-lime-128-gb/p/itm2cd5a4e659035?pid=MOBGZJ3WM5SGTGVZ&lid=LSTMOBGZJ3WM5SGTGVZIOJLVZ&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_4&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGZJ3WM5SGTGVZ.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-chromatic-gray-128-gb/p/itm2cd5a4e659035?pid=MOBGZJ42KHUZZKMN&lid=LSTMOBGZJ42KHUZZKMNI4CBJY&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_5&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGZJ42KHUZZKMN.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-pastel-lime-128-gb/p/itmf8721ae0b4a98?pid=MOBGTXXG782FVENF&lid=LSTMOBGTXXG782FVENFXSC9GO&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_6&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGTXXG782FVENF.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-chromatic-gray-128-gb/p/itm2cd5a4e659035?pid=MOBGQR6JSKZRFKUD&lid=LSTMOBGQR6JSKZRFKUDMQXBT3&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_7&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGQR6JSKZRFKUD.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-pastel-lime-256-gb/p/itm5ed24471bde9f?pid=MOBGPRHYH4K4ZBQQ&lid=LSTMOBGPRHYH4K4ZBQQVK96S7&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_8&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGPRHYH4K4ZBQQ.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-chromatic-gray-256-gb/p/itm5ed24471bde9f?pid=MOBGPRQHDNEHT5WG&lid=LSTMOBGPRQHDNEHT5WGGUHAZX&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_9&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGPRQHDNEHT5WG.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-pastel-lime-256-gb/p/itm5da8fffa73e1a?pid=MOBGTXXGSZUKT75G&lid=LSTMOBGTXXGSZUKT75GWGVHB4&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_10&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGTXXGSZUKT75G.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-chromatic-gray-256-gb/p/itm1bd48f48f8797?pid=MOBGTXXGEQCJFHBB&lid=LSTMOBGTXXGEQCJFHBBZIXWES&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_11&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGTXXGEQCJFHBB.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-chromatic-gray-256-gb/p/itm2cd5a4e659035?pid=MOBGZJ45PS4AQ7BA&lid=LSTMOBGZJ45PS4AQ7BAYQUWAG&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_12&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGZJ45PS4AQ7BA.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce3-5g-grey-shimmer-256-gb/p/itm95b25bfcca817?pid=MOBGS452TWGEZXMC&lid=LSTMOBGS452TWGEZXMCUATDFR&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_13&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGS452TWGEZXMC.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce3-5g-aqua-surge-128-gb/p/itm95b25bfcca817?pid=MOBGS44DBDZBTUWS&lid=LSTMOBGS44DBDZBTUWSIUEUUI&marketplace=FLIPKART&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_14&otracker=search&otracker1=search&fm=organic&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGS44DBDZBTUWS.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts0000001702999373087&qH=53863d4d978d5074

Appended URL: https://www.flipkart.com/oneplus-nord-ce3-5g-grey-shimmer-128-gb/p/itm95b25bfcca817?pid=MOBGS44NJJVFWSHU&lid=LSTMOBGS44NJJVFWSHUNEGSLA&marketplace=FLIPKART&q=Onep

```
lus+Nord&store=tyy%2F4io&srno=s_1_15&otracker=search&otracker1=search&fm=organic&iid=962
1c560-c246-4a12-84cd-42b1352a39f7.MOBGS44NJJVFWSHU.SEARCH&ppt=hp&ppn=homepage&ssid=powsc
ygdts0000001702999373087&qH=53863d4d978d5074
Appended URL: https://www.flipkart.com/oneplus-nord-3-5g-misty-green-128-gb/p/itm5fc87af
ce35dc?pid=MOBGRKA2GBGGS6QZ&lid=LSTMOBGRKA2GBGGS6QZVEY6WI&marketplace=FLIPKART&q=Oneplus
+Nord&store=tyy%2F4io&srno=s_1_16&otracker=search&otracker1=search&fm=organic&iid=9621c5
60-c246-4a12-84cd-42b1352a39f7.MOBGRKA2GBGGS6QZ.SEARCH&ppt=hp&ppn=homepage&ssid=powscygd
ts0000001702999373087&qH=53863d4d978d5074
Appended URL: https://www.flipkart.com/oneplus-nord-ce-3-lite-5g-chromatic-gray-128-gb/
p/itm2a5927ad80bbb?pid=MOBGTXXGFS4D74GZ&lid=LSTMOBGTXXGFS4D74GZQJWHR4&marketplace=FLIPKA
RT&q=Oneplus+Nord&store=tyy%2F4io&srno=s_1_17&otracker=search&otracker1=search&fm=organi
c&iid=9621c560-c246-4a12-84cd-42b1352a39f7.MOBGTXXGFS4D74GZ.SEARCH&ppt=hp&ppn=homepage&s
sid=powscygdts0000001702999373087&qH=53863d4d978d5074
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fcca817?pid=MOBGS45CEU4ZGYWY&lid=LSTMOBGS45CEU4ZGYWYVAJPTA&marketplace=FLIPKART&q=Oneplu
s+Nord&store=tyy%2F4io&srno=s_1_18&otracker=search&otracker1=search&fm=organic&iid=9621c
560-c246-4a12-84cd-42b1352a39f7.MOBGS45CEU4ZGYWY.SEARCH&ppt=hp&ppn=homepage&ssid=powscyg
dts0000001702999373087&qH=53863d4d978d5074
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fce35dc?pid=MOBGRK35QGGTMTZ3&lid=LSTMOBGRK35QGGTMTZ3KCGOXO&marketplace=FLIPKART&q=Oneplu
s+Nord&store=tyy%2F4io&srno=s_1_19&otracker=search&otracker1=search&fm=organic&iid=9621c
560-c246-4a12-84cd-42b1352a39f7.MOBGRK35QGGTMTZ3.SEARCH&ppt=hp&ppn=homepage&ssid=powscyg
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s+Nord&store=tyy%2F4io&srno=s_1_20&otracker=search&otracker1=search&fm=organic&iid=9621c
560-c246-4a12-84cd-42b1352a39f7.MOBGRK2VXCKBADB5.SEARCH&ppt=hp&ppn=homepage&ssid=powscyg
dts0000001702999373087&qH=53863d4d978d5074
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ce35dc?pid=MOBGRK3284RMGYSX&lid=LSTMOBGRK3284RMGYSXDHRBUI&marketplace=FLIPKART&q=Oneplus
+Nord&store=tyy%2F4io&srno=s_1_21&otracker=search&otracker1=search&fm=organic&iid=9621c5
60-c246-4a12-84cd-42b1352a39f7.MOBGRK3284RMGYSX.SEARCH&ppt=hp&ppn=homepage&ssid=powscygd
ts0000001702999373087&qH=53863d4d978d5074
Appended URL: https://www.flipkart.com/oneplus-nord-2t-5g-jade-fog-128-gb/p/itm35e6b96d5
0ae8?pid=MOBGNQHZ7V2GPFKG&lid=LSTMOBGNQHZ7V2GPFKGAQZ2OH&marketplace=FLIPKART&q=Oneplus+N
ord&store=tyy%2F4io&srno=s_1_22&otracker=search&otracker1=search&fm=organic&iid=9621c560
-c246-4a12-84cd-42b1352a39f7.MOBGNQHZ7V2GPFKG.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts
0000001702999373087&qH=53863d4d978d5074
Appended URL: https://www.flipkart.com/oneplus-nord-2t-5g-jade-fog-256-gb/p/itm97eda8b1a
1566?pid=MOBGHBZHF4YCMGZY&lid=LSTMOBGHBZHF4YCMGZYHRVT6J&marketplace=FLIPKART&q=Oneplus+N
ord&store=tyy%2F4io&srno=s_1_23&otracker=search&otracker1=search&fm=organic&iid=9621c560
-c246-4a12-84cd-42b1352a39f7.MOBGHBZHF4YCMGZY.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts
0000001702999373087&qH=53863d4d978d5074
Appended URL: https://www.flipkart.com/oneplus-nord-2-5g-blue-haze-256-gb/p/itmd16c63dad
f5c5?pid=MOBGDBFHW7596ZTU&lid=LSTMOBGDBFHW7596ZTUMZOWTM&marketplace=FLIPKART&q=Oneplus+N
ord&store=tyy%2F4io&srno=s_1_24&otracker=search&otracker1=search&fm=organic&iid=9621c560
-c246-4a12-84cd-42b1352a39f7.MOBGDBFHW7596ZTU.SEARCH&ppt=hp&ppn=homepage&ssid=powscygdts
0000001702999373087&qH=53863d4d978d5074
Finished processing page 0
```

```python
In [49]:   for url in mobile_urls:
               driver.get(url)
               time.sleep(2)


           brand = []
           Smartphone = []
           RAM = []
           ROM = []
           p_camera = []
           Display = []
           Battery = []
           Price = []
```

```python
In [50]:   for url in mobile_urls:
```

```python
        driver.get(url)
        time.sleep(2)

        try:
            brand_element = driver.find_element(By.XPATH,"/html/body/div[1]/div/div[3]/div[1
            brand.append(brand_element.text)
        except NoSuchElementException:
            brand.append('N/A')

        try:
            smartphone_element = driver.find_element(By.XPATH,"/html/body/div[1]/div/div[3]/
            Smartphone.append(smartphone_element.text)
        except NoSuchElementException:
            Smartphone.append('N/A')

        try:
            RAM_element = driver.find_element(By.XPATH,"/html/body/div[1]/div/div[3]/div[1]/
            RAM.append(RAM_element.text)
        except NoSuchElementException:
            RAM.append('N/A')
```

In [58]:
```python
for url in mobile_urls:
    driver.get(url)
    time.sleep(2)

    try:
        ROM_element = driver.find_element(By.XPATH,"/html/body/div[1]/div/div[3]/div[1]/
        ROM.append(ROM_element.text)
    except NoSuchElementException:
        ROM.append('N/A')

    try:
        p_camera_element = driver.find_element(By.XPATH,"/html/body/div[1]/div/div[3]/di
        p_camera.append(p_camera_element.text)
    except NoSuchElementException:
        p_camera.append('N/A')
```

In [51]:
```python
for url in mobile_urls:
    driver.get(url)
    time.sleep(2)

    try:
        Display_element = driver.find_element(By.XPATH,"/html/body/div[1]/div/div[3]/div
        Display.append(Display_element.text)
    except NoSuchElementException:
        Display.append('N/A')

    try:
        Battery_element = driver.find_element(By.XPATH,"/html/body/div[1]/div/div[3]/div
        Battery.append(Battery_element.text)
    except NoSuchElementException:
        Battery.append('N/A')

    try:
        price_element = driver.find_element(By.XPATH,"/html/body/div[1]/div/div[3]/div[1
        Price.append(price_element.text)
    except NoSuchElementException:
        Price.append('N/A')
```

In [44]:

In [63]:
```python
data = {
```

```
    'Brand': brand,
    'Smartphone': Smartphone,
    'RAM': RAM,
    'ROM': ROM,
    'Primary Camera': p_camera,
    'Display': Display,
    'Battery': Battery,
    'Price': Price
    }
```

In [64]: `df = pd.DataFrame(data)`

In [65]: `df`

Out[65]:

	Brand	Smartphone	RAM	ROM	Primary Camera	Display	Battery	Price
0	OnePlus Nord CE 2 Lite 5G (Blue Tide, 128 GB) ...	OnePlus Nord CE 2 Lite 5G (Blue Tide, 128 GB) ...	N/A	N/A	N/A	N/A	N/A	₹17,245
1	OnePlus Nord CE 2 Lite 5G (Black Dusk, 128 GB)...	OnePlus Nord CE 2 Lite 5G (Black Dusk, 128 GB)...	N/A	N/A	N/A	N/A	N/A	₹17,013
2	OnePlus Nord CE 3 Lite 5G (Pastel Lime, 256 GB...	OnePlus Nord CE 3 Lite 5G (Pastel Lime, 256 GB...	N/A	N/A	N/A	N/A	N/A	₹21,425
3	OnePlus Nord CE 3 Lite 5G (Pastel Lime, 128 GB...	OnePlus Nord CE 3 Lite 5G (Pastel Lime, 128 GB...	N/A	N/A	N/A	N/A	N/A	₹19,324
4	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 128...	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 128...	N/A	N/A	N/A	N/A	N/A	₹19,384
5	OnePlus Nord CE 3 Lite 5G (Pastel Lime, 128 GB...	OnePlus Nord CE 3 Lite 5G (Pastel Lime, 128 GB...	8 GB RAM | 128 GB ROM	8 GB RAM | 128 GB ROM	108MP Rear Camera	17.07 cm (6.72 inch) Display	5000 mAh Battery	N/A
6	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 128...	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 128...	8 GB RAM | 128 GB ROM	8 GB RAM | 128 GB ROM	108MP Rear Camera	17.07 cm (6.72 inch) Display	5000 mAh Battery	N/A
7	OnePlus Nord CE 3 Lite 5G (Pastel lime, 256 GB...	OnePlus Nord CE 3 Lite 5G (Pastel lime, 256 GB...	N/A	N/A	N/A	N/A	N/A	N/A
8	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 256...	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 256...	N/A	N/A	N/A	N/A	N/A	N/A
9	OnePlus Nord CE 3 Lite 5G (Pastel Lime, 256 GB...	OnePlus Nord CE 3 Lite 5G (Pastel Lime, 256 GB...	8 GB RAM | 256 GB ROM	8 GB RAM | 256 GB ROM	108MP Rear Camera	17.07 cm (6.72 inch) Display	5000 mAh Battery	N/A
10	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 256...	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 256...	8 GB RAM | 256 GB ROM	8 GB RAM | 256 GB ROM	108MP Rear Camera	17.07 cm (6.72 inch) Display	5000 mAh Battery	N/A
11	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 256...	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 256...	N/A	N/A	N/A	N/A	N/A	N/A
12	OnePlus Nord CE3 5G (Grey Shimmer, 256 GB) (1...	OnePlus Nord CE3 5G (Grey Shimmer, 256 GB) (1...	N/A	N/A	N/A	N/A	N/A	₹28,360

13	OnePlus Nord CE3 5G (Aqua Surge, 128 GB) (8 G...	OnePlus Nord CE3 5G (Aqua Surge, 128 GB) (8 G...	N/A	N/A	N/A	N/A	N/A	₹24,971
14	OnePlus Nord CE3 5G (Grey Shimmer, 128 GB) (8...	OnePlus Nord CE3 5G (Grey Shimmer, 128 GB) (8...	N/A	N/A	N/A	N/A	N/A	₹25,315
15	OnePlus Nord 3 5G (Misty Green, 128 GB) (8 GB...	OnePlus Nord 3 5G (Misty Green, 128 GB) (8 GB...	N/A	N/A	N/A	N/A	N/A	₹30,535
16	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 128...	OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 128...	8 GB RAM | 128 GB ROM	8 GB RAM | 128 GB ROM	108MP Rear Camera	17.07 cm (6.72 inch) Display	5000 mAh Battery	N/A
17	OnePlus Nord CE3 5G (Aqua Surge, 256 GB) (12 ...	OnePlus Nord CE3 5G (Aqua Surge, 256 GB) (12 ...	N/A	N/A	N/A	N/A	N/A	₹28,240
18	OnePlus Nord 3 5G (Tempest Gray, 256 GB) (16 ...	OnePlus Nord 3 5G (Tempest Gray, 256 GB) (16 ...	N/A	N/A	N/A	N/A	N/A	N/A
19	OnePlus Nord 3 5G (Tempest Gray, 128 GB) (8 G...	OnePlus Nord 3 5G (Tempest Gray, 128 GB) (8 G...	N/A	N/A	N/A	N/A	N/A	₹30,890
20	OnePlus Nord 3 5G (Misty Green, 256 GB) (16 G...	OnePlus Nord 3 5G (Misty Green, 256 GB) (16 G...	N/A	N/A	N/A	N/A	N/A	₹35,769
21	OnePlus Nord 2T 5G (Jade Fog, 128 GB) (8 GB RAM)	OnePlus Nord 2T 5G (Jade Fog, 128 GB) (8 GB RAM)	8 GB RAM | 128 GB ROM	8 GB RAM | 128 GB ROM	50MP Rear Camera	17.02 cm (6.7 inch) Display	4500 mAh Battery	N/A
22	OnePlus Nord 2T 5G (Jade Fog, 256 GB) (12 GB ...	OnePlus Nord 2T 5G (Jade Fog, 256 GB) (12 GB ...	12 GB RAM | 256 GB ROM	12 GB RAM | 256 GB ROM	50MP Rear Camera	17.02 cm (6.7 inch) Display	4500 mAh Battery	N/A
23	OnePlus Nord 2 5G (Blue Haze, 256 GB) (12 GB ...	OnePlus Nord 2 5G (Blue Haze, 256 GB) (12 GB ...	12 GB RAM | 256 GB ROM	12 GB RAM | 256 GB ROM	50MP Rear Camera	16.33 cm (6.43 inch) Display	4500 mAh Battery	₹32,890

```python
In [66]: df.to_csv('List.csv', index=False)
```

```python
In [67]: print('*************************************************************************************
*************************************************************************************
**************************')
```

```python
In [ ]: #3.
```