```
In [1]:
         !pip install bs4
         !pip install requests
         Requirement already satisfied: bs4 in c:\users\manisha singh\onedrive\documents\py
         thon scripts\lib\site-packages (0.0.1)
         Requirement already satisfied: beautifulsoup4 in c:\users\manisha singh\onedrive\d
         ocuments\python scripts\lib\site-packages (from bs4) (4.12.2)
         Requirement already satisfied: soupsieve>1.2 in c:\users\manisha singh\onedrive\do
         cuments\python scripts\lib\site-packages (from beautifulsoup4->bs4) (2.4)
         Requirement already satisfied: requests in c:\users\manisha singh\onedrive\documen
         ts\python scripts\lib\site-packages (2.31.0)
         Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\manisha singh
         \onedrive\documents\python scripts\lib\site-packages (from requests) (2.0.4)
         Requirement already satisfied: idna<4,>=2.5 in c:\users\manisha singh\onedrive\doc
         uments\python scripts\lib\site-packages (from requests) (3.4)
         Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\manisha singh\onedri
         ve\documents\python scripts\lib\site-packages (from requests) (1.26.16)
         Requirement already satisfied: certifi>=2017.4.17 in c:\users\manisha singh\onedri
         ve\documents\python scripts\lib\site-packages (from requests) (2023.7.22)
         import requests
In [10]:
         from bs4 import BeautifulSoup
         import pandas as pd
         import bs4
In [11]: headers = {'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537
         Webpage = requests.get('https://www.nike.com/in/w/mens-shoes-nik1zy7ok', headers=he
In [12]: Soup = BeautifulSoup (Webpage, 'lxml')
In [13]: def my_url(keyyword):
             keyword = keyyword.replace(' ', '%20')
             url = 'https://www.nike.com/w?q={}'.format(keyword)
             return url
         def extract data(obj):
             name = obj.find('div', 'product-card_title').text.strip()
             description = obj.find('div', 'product-card_subtitle').text.strip()
             color = obj.find('div','product-card__count-item').text
             url2 = obj.find('a', 'product-card_link-overlay').get('href')
             #use a try block incase because the price might be in the discount block
                 price = obj.find('div', 'product-price us styling is--current-price css-11
             except AttributeError:
                 price = obj.find('div','product-price is--current-price css-1ydfahe').text
             try:
                 old price = obj.find('div', 'product-price us styling is--striked-out css-@
             except AttributeError:
                 old price = ''
             data = requests.get(url2)
             soup2 = bs4.BeautifulSoup(data.text, 'html.parser')
             image = soup2.find('img', class_ = 'css-viwop1 u-full-width u-full-height css-m
             result = (name, description, color, price, old_price, image, url2)
             return result
```

```
def search(keyword):
   records = []
   url = my_url(keyword)
   response = requests.get(url)
   soup = bs4.BeautifulSoup(response.text, 'html.parser')
   soup_results = soup.findAll('div', class_ = 'product-card_body')
   for item in soup_results:
        record = extract_data(item)
        if record:
            records.append(record)
   # Convert list to dataframe
   columns_ = ['Name','Description','Available In', 'Price', 'Old Price', 'Image I
   df = pd.DataFrame(records, columns = columns_)
   return df
   # To store data in csv file, Run this
   # with open('Nike_Results.csv','w', newline = '', encoding = 'utf-8') as f:
         writer = csv.writer(f)
         writer.writerow(['Name', 'Description', 'Available In', 'Price', 'Old Price
         writer.writerows(records)
```

Testing

```
In [14]: search('ball')
```

Out[14]:

	Name	Description	Available In	Price	Old Price	lmage Liı
0	Nike Skills	Kids' Basketball	1 Color	\$15		https://static.nike.com/a/images/t_PDP_1280_v1
1	Premier League Academy	Soccer Ball	3 Colors	\$27.97	\$37	https://static.nike.com/a/images/t_PDP_1280_v1
2	Jordan Skills	Basketball	1 Color	\$15		https://static.nike.com/a/images/t_PDP_1280_v1
3	Premier League Academy	Soccer Ball	1 Color	\$37		https://static.nike.com/a/images/t_PDP_1280_v1
4	Jordan Playground 8P	Basketball	1 Color	\$30		https://static.nike.com/a/images/t_PDP_1280_v1
5	Jordan Legacy 8P	Basketball	1 Color	\$40		https://static.nike.com/a/images/t_PDP_1280_v1
6	Nike Elite All- Court 8P	Basketball	1 Color	\$35		https://static.nike.com/a/images/t_PDP_1280_v1
7	Nike Academy	Soccer Ball	2 Colors	\$27.97	\$32	https://static.nike.com/a/images/t_PDP_1280_v1
8	Nike Elite Tournament	Basketball (Size 6 and 7)	1 Color	\$55		https://static.nike.com/a/images/t_PDP_1280_v1
9	Premier League Flight	Soccer Ball	1 Color	\$167		https://static.nike.com/a/images/t_PDP_1280_v1
10	NWSL Academy	Soccer Ball	1 Color	\$27.97	\$37	https://static.nike.com/a/images/t_PDP_1280_v1
11	Brazil Academy	Soccer Ball	1 Color	\$30		https://static.nike.com/a/images/t_PDP_1280_v1
12	LeBron Playground 8P	Basketball	1 Color	\$25.97	\$30	https://static.nike.com/a/images/t_PDP_1280_v1
13	Nike Everyday Playground 8P	Graphic Basketball	1 Color	\$22.97	\$25	https://static.nike.com/a/images/t_PDP_1280_v1
14	Nike Club Elite Team	Soccer Ball	1 Color	\$62		https://static.nike.com/a/images/t_PDP_1280_v1
15	Nike Skills	Soccer Ball	1 Color	\$15.97	\$20	https://static.nike.com/a/images/t_PDP_1280_v1
16	Nike All-Court	Volleyball	1 Color	\$25.97	\$30	https://static.nike.com/a/images/t_PDP_1280_v1
17	Paris Saint- Germain Strike	Soccer Ball	1 Color	\$30		https://static.nike.com/a/images/t_PDP_1280_v1
18	Oklahoma	Nike College Mini Football	2 Colors	\$18		https://static.nike.com/a/images/t_PDP_1280_v1

Image Li	ld ce	ice	Available In	Description	Name	
https://static.nike.com/a/images/t_PDP_1280_v		75	1 Color	Basketball	Nike Elite Championship 8P`	19
https://static.nike.com/a/images/t_PDP_1280_v		32	1 Color	Soccer Ball	Liverpool FC Strike	20
https://static.nike.com/a/images/t_PDP_1280_v		15	1 Color	Volleyball	Nike Skills	21
https://static.nike.com/a/images/t_PDP_1280_v	16	97	\$ 1 Color	Soccer Ball	Nike Skills	22
https://static.nike.com/a/images/t_PDP_1280_v		50	1 Color	Basketball	Jordan Diamond	23

PROCESS AND EXPLANATIONS

```
In [16]: # Import libraries
          from selenium import webdriver
          import bs4
          import csv
         import requests
In [17]: # activate driver
         driver = webdriver.Chrome()
In [18]: def my_url(keyyword):
              keyword = keyyword.replace(' ', '%20')
             url = 'https://www.nike.com/w?q={}'.format(keyword)
             return url
In [19]: url = my_url('blue shirt')
          url
          'https://www.nike.com/w?q=blue%20shirt'
Out[19]:
In [20]: response = requests.get(url)
In [21]: soup = bs4.BeautifulSoup(response.text, 'html.parser')
In [22]: soup_results = soup.findAll('div', class_ = 'product-card_body')
         len(soup_results)
Out[22]:
```

Getting the Name and Description

```
In [23]: obj = soup_results[13]
  name = obj.find('div', 'product-card_title').text.strip()
  name
```

```
Out[23]: 'Nike Dri-FIT'

In [24]: description = obj.find('div', 'product-card_subtitle').text.strip()
    description

Out[24]: "Big Kids' T-Shirt"
```

Getting the number of Color

```
In [26]: color = obj.find('div', 'product-card_count-item').text
color
Out[26]: '1 Color'
```

Getting the Price

Getting prices with Discount

Getting the Urls and Images

```
In [33]:
        # Change this to read data from the web scraped list
         shoe_data = [{'name': 'Nike Air Force 1 Shadow', 'price': 'MRP : ₹ 8995.00'}]
         def clean_price(price):
             return price.replace('MRP : ₹ ', '').strip()
         filename = 'shoe_data.csv'
         with open(filename, 'w', newline='', encoding='utf-8') as csvfile:
             writer = csv.writer(csvfile)
             for shoe in shoe_data:
                 writer.writerow([shoe['name'], clean_price(shoe['price'])])
         print(f"Data written to {filename}")
```

Data written to shoe_data.csv

```
In [ ]:
```