

# Web scraping

Web scraping is an automated method used to extract large amounts of data from websites. The data on the websites are unstructured. Web scraping helps collect these unstructured data and store it in a structured form.



To extract data using web scraping with python, you need to follow these basic steps:

1. Find the URL that you want to scrape
2. Inspecting the Page
3. Find the data you want to extract
4. Write the code
5. Run the code and extract the data
6. Store the data in the required format

In [5]:

```
!pip install requests
!pip install pandas
!pip install bs4
```

```
Requirement already satisfied: requests in d:\archana\lib\site-packages (2.26.0)
Requirement already satisfied: certifi>=2017.4.17 in d:\archana\lib\site-packages (from re
quests) (2021.10.8)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in d:\archana\lib\site-packages (from
requests) (1.26.7)
Requirement already satisfied: charset-normalizer~=2.0.0 in d:\archana\lib\site-packages
(from requests) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in d:\archana\lib\site-packages (from request
s) (3.2)
Requirement already satisfied: pandas in d:\archana\lib\site-packages (1.3.4)
Requirement already satisfied: pytz>=2017.3 in d:\archana\lib\site-packages (from pandas)
(2021.3)
Requirement already satisfied: python-dateutil>=2.7.3 in d:\archana\lib\site-packages (fro
m pandas) (2.8.2)
Requirement already satisfied: numpy>=1.17.3 in d:\archana\lib\site-packages (from pandas)
(1.20.3)
Requirement already satisfied: six>=1.5 in d:\archana\lib\site-packages (from python-dateu
til>=2.7.3->pandas) (1.16.0)
Collecting bs4
  Downloading bs4-0.0.1.tar.gz (1.1 kB)
Requirement already satisfied: beautifulsoup4 in d:\archana\lib\site-packages (from bs4)
(4.10.0)
Requirement already satisfied: soupsieve>1.2 in d:\archana\lib\site-packages (from beautif
ulsoup4->bs4) (2.2.1)
Building wheels for collected packages: bs4
  Building wheel for bs4 (setup.py): started
```

```
Building wheel for bs4 (setup.py): finished with status 'done'
Created wheel for bs4: filename=bs4-0.0.1-py3-none-any.whl size=1271 sha256=261af87d5b80
8d950672dbc69e1642c130678c9d9da9fccald0e575f468a33bb
Stored in directory: c:\users\de11\appdata\local\pip\cache\wheels\73\2b\cb\099980278a0c9
a3e57ff1a89875ec07bfa0b6fcbabb9a8cad3
Successfully built bs4
Installing collected packages: bs4
Successfully installed bs4-0.0.1
```

```
In [9]: import requests
import pandas as pd
from bs4 import BeautifulSoup
```

```
In [13]: response=requests.get("https://www.flipkart.com/search?q=mobiles&as=on&as-show=on&otracker=
```

```
In [14]: print(response)
```

<Response [200]>

```
In [15]: soup=BeautifulSoup(response.content,'html.parser')
```

```
In [33]: names=soup.find_all('div',class_='_4rR01T')
```

```
In [20]: names=soup.find_all('div',class_='_4rR01T')
name=[]
for i in names:
    d=i.get_text()
    name.append(d)
print(name)
```

```
['POCO C31 (Royal Blue, 64 GB)', 'realme C31 (Light Silver, 32 GB)', 'realme C31 (Dark Gre
en, 32 GB)', 'realme C11 2021 (Cool Blue, 32 GB)', 'realme C11 2021 (Cool Grey, 32 GB)',
'realme C31 (Light Silver, 64 GB)', 'realme C11 2021 (Cool Grey, 64 GB)', 'realme C11 2021
(Cool Blue, 64 GB)', 'realme C31 (Dark Green, 64 GB)', 'POCO C31 (Royal Blue, 32 GB)', 'PO
CO C31 (Shadow Gray, 64 GB)', 'realme C35 (Glowing Black, 64 GB)', 'REDMI Note 10T 5G (Min
t Green, 64 GB)', 'REDMI 9i Sport (Metallic Blue, 64 GB)', 'MOTOROLA G60 (Moonless, 128 G
B)', 'REDMI Note 10T 5G (Chromium White, 128 GB)', 'vivo T1 44W (Starry Sky, 128 GB)', 'RE
DMI 10 (Midnight Black, 64 GB)', 'REDMI Note 10S (Deep Sea Blue, 64 GB)', 'realme C35 (Glo
wing Black, 128 GB)', 'REDMI 9i Sport (Coral Green, 64 GB)', 'REDMI Note 10T 5G (Metallic
Blue, 64 GB)', 'POCO M3 Pro 5G (Yellow, 64 GB)', 'vivo T1 44W (Midnight Galaxy, 128 GB)']
```

```
In [22]: price=soup.find_all('div',class_='_30jeq3 _1_WHN1')
prices=[]
for i in price:
    d=i.get_text()
    prices.append(d)
print(prices)
```

```
['₹9,999', '₹9,299', '₹9,299', '₹7,499', '₹7,499', '₹9,999', '₹8,999', '₹8,999', '₹9,999',
'₹8,999', '₹9,999', '₹11,999', '₹11,999', '₹8,999', '₹15,999', '₹13,999', '₹14,499', '₹10,
499', '₹12,999', '₹12,999', '₹8,999', '₹11,999', '₹14,499', '₹14,499']
```

```
In [23]: rate=soup.find_all('div',class_='_3LWZ1K')
ratings=[]
for i in rate:
    d=i.get_text()
```

```
ratings.append(d)
print(ratings)
```

```
['4.4', '4.5', '4.5', '4.4', '4.4', '4.4', '4.3', '4.3', '4.4', '4.4', '4.4', '4.4', '4.5', '4.4', '4.2', '4.3', '4.5', '4.4', '4.4', '4.4', '4.4', '4.5', '4.3', '4.5', '4.2', '5', '5', '4.5', '5', '4', '4.3', '4', '4', '4.4', '4', '4', '4.3', '5', '5']
```

In [27]:

```
image=soup.find_all('img',class_='_396cs4 _3exPp9')
images=[]
for i in image:
    d=i['src']
    images.append(d)
print(images)
```

```
['https://rukminim1.flixcart.com/image/312/312/ku4ezrk0/mobile/p/e/4/c31-mzb0a0jin-poco-original-imag7bzqxgdhgf2n.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l1dwknk0/mobile/f/t/x/-original-imagcyj4unsxhadw.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l1dwknk0/mobile/p/r/0/-original-imagcyj2prahc4pk.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/kqjtd3k0/mobile/o/4/x/c11-2021-rmx3231-realme-original-imag4j4yrdt7d9cj.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/kqjtd3k0/mobile/s/b/8/c11-2021-rmx3231-realme-original-imag4j4xkqchhfxk.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l1dwknk0/mobile/f/t/x/-original-imagcyj4unsxhadw.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/kqjtd3k0/mobile/s/b/8/c11-2021-rmx3231-realme-original-imag4j4xkqchhfxk.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/kqjtd3k0/mobile/o/4/x/c11-2021-rmx3231-realme-original-imag4j4yrdt7d9cj.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l1dwknk0/mobile/p/r/0/-original-imagcyj2prahc4pk.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/ku4ezrk0/mobile/p/e/4/c31-mzb0a0jin-poco-original-imag7bzqxgdhgf2n.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/ku4ezrk0/mobile/b/o/m/c31-mzb0a0min-poco-original-imag7bzqxekkpkrv.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l0fm07k0/mobile/1/k/g/-original-imagc7ukmgugpdfy.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l0igvw0/mobile/9/a/w/-original-imagcaaw5gzbdtxj.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/ku04o7k0/mobile/x/x/t/9i-sport-mzb0a10in-redmi-original-imag785rwf3q8sft.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l0o6nbk0/mobile/y/s/e/-original-imagceu559m75mks.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l0igvw0/mobile/o/q/q/-original-imagcaaw5zg6amp5.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l2p23rk0/mobile/s/4/3/-original-imagdzhncbdfwud.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l0tweq80/mobile/x/f/u/-original-imagcgtghym8theg.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/kyeqjrk0/mobile/y/u/t/-original-imagan9qzdf2hbggy.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l0fm07k0/mobile/1/k/g/-original-imagc7ukmgugpdfy.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/ku04o7k0/mobile/m/w/p/9i-sport-mzb0a0yin-redmi-original-imag785ryfspqg3a.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l0igvw0/mobile/y/j/4/-original-imagcaaw4d7bv7pj.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/kpmy8i80/mobile/x/q/n/m3-pro-5g-mzb0956in-poco-original-imag3th5e4thsxjt.jpeg?q=70', 'https://rukminim1.flixcart.com/image/312/312/l2p23rk0/mobile/x/b/y/-original-imagdzhnznzmzfbwx.jpeg?q=70']
```

In [28]:

```
link=soup.find_all('a',class_='_1fQZEK')
links=[]
for i in link:
    d='https://www.flipkart.com'+i['href']
    links.append(d)
print(links)
```

```
['https://www.flipkart.com/poco-c31-royal-blue-64-gb/p/itm19effae969b86?pid=MOBG73E7GKQK4KZP&lid=LSTMOBG73E7GKQK4KZPR5ICMK&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s_1_1&otracker=AS_Query_TrendingAutoSuggest_1_0_na_na_na&otracker1=AS_Query_TrendingAutoSuggest_1_0_na_na_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBG73E7GKQK4KZP.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/realme-c31-light-silver-32-gb/p/itme0f2960da9bbb?pid=MOBGCGVA3DANQNQH&lid=LSTMOBGCGVA3DANQNQH&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s_1_2&otracker=AS_Query_TrendingAutoSuggest_1_0_na_na_na&otracker1=AS_Query_TrendingAutoSuggest_1_0_na_na_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBGCGVA3DANQNQH.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/r
```

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W8CSTQ&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_3&otracker=AS\_Query\_Trendin  
gAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&i  
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ketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_4&otracker=AS\_Query\_TrendingAutoSugge  
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-32-gb/p/itmbd856acb97c38?pid=MOBG4BEGX8QYNKGZ&lid=LSTMOBG4BEGX8QYNKGZ8JGQTA&marketplace=F  
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c38?pid=MOBG5BCDJ68N57TH&lid=LSTMOBG5BCDJ68N57THWJHNPW&marketplace=FLIPKART&q=mobiles&stor  
e=tyy%2F4io&srno=s\_1\_7&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Qu  
ery\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MO  
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gAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBG5BCDBHPY  
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tps://www.flipkart.com/realme-c31-dark-green-64-gb/p/itmef0f2960da9bbb?pid=MOBGCGVAZXRCZJNE  
&lid=LSTMOBGCGVAZXRCZJNEAEVV0M&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_9&o  
tracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1  
\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBGCGVAZXRCZJNE.SEARCH&pp  
t=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flip  
kart.com/poco-c31-royal-blue-32-gb/p/itm9656ebd21e0b3?pid=MOBG73E7ZBHHQ3RB&lid=LSTMOBG73E7  
ZBHHQ3RBDYSPVO&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_10&otracker=AS\_Quer  
y\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=  
organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBG73E7ZBHHQ3RB.SEARCH&ppt=None&ppn=None  
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&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_11&otracker=AS\_Query\_TrendingAuto  
Suggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=fe  
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lack-64-gb/p/itmafb045222b2cf?pid=MOGBBTHFDQXQEGNS&lid=LSTMOGBBTHFDQXQEGNSZWXXHJ&marketpla  
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0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422  
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53978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/redmi-note-10t-5g-mint-green-6  
4-gb/p/itm66267253b4a39?pid=MOBGC7QFNGX5K3RE&lid=LSTMOBGC7QFNGX5K3REIVGTIP&marketplace=FLI  
PKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_13&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_n  
a\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe  
-a554-edb555bb47c1.MOBGC7QFNGX5K3RE.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk00000016539780  
19271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/redmi-9i-sport-metallic-blue-64-gb/  
p/itmef95d0b4616cc?pid=MOBG6WQWQZZMGQCU&lid=LSTMOBG6WQWQZZMGQCUR9J4PR&marketplace=FLIPKART  
&q=mobiles&store=tyy%2F4io&srno=s\_1\_14&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&  
otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554  
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ea674?pid=MOBGC7QFTKPRRVJC&lid=LSTMOBGC7QFTKPRRVJC0YGQ1H&marketplace=FLIPKART&q=mobiles&st  
ore=tyy%2F4io&srno=s\_1\_16&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_

Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBGC7QFTKPRRVJC.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/vivo-t1-44w-starry-sky-128-gb/p/itm6fabe8894256b?pid=MOBGDRHVHNB BBBP5&lid=LSTMOBGDRHVHNB BBBP57SXRTY&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_17&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBGDRHVHNB BBBP5.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/redmi-10-midnight-black-64-gb/p/itmd93641e4ebb47?pid=MOBGC9GYEBH3GZ4E&lid=LSTMOBGC9GYEBH3GZ4EOWOH9V&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_18&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBGC9GYEBH3GZ4E.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/redmi-note-10s-deep-sea-blue-64-gb/p/itmdd3b943d713b8?pid=MOBGAHD8GWKMFWFG&lid=LSTMOBGAHD8GWKMFWFGQXE9RS&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_19&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBGAHD8GWKMFWFG.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/realme-c35-glowing-black-128-gb/p/itmafb045222b2cf?pid=MOBGBTHFZZN4ADNF&lid=LSTMOBGBTHFZZN4ADNFEGSZHG&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_20&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBGBTHFZZN4ADNF.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/redmi-9i-sport-coral-green-64-gb/p/itmb5e8d8186b602?pid=MOBG6WQWJRFZ5WDG&lid=LSTMOBG6WQWJRFZ5WDGEZXWFI&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_21&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBG6WQWJRFZ5WDG.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/redmi-note-10t-5g-metallic-blue-64-gb/p/itm7a558068a9f23?pid=MOBGC7QFTGDSWQZN&lid=LSTMOBGC7QFTGDSWQZNQOXYJA&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_22&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBGC7QFTGDSWQZN.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/poco-m3-pro-5g-yellow-64-gb/p/itm51fb555f11b66?pid=MOBG3P55T4HQZBGC&lid=LSTMOBG3P55T4HQZBGC0XVZM2&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_23&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBG3P55T4HQZBGC.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429', 'https://www.flipkart.com/vivo-t1-44w-midnight-galaxy-128-gb/p/itm6fabe8894256b?pid=MOBGDRHVZN29ZJF4&lid=LSTMOBGDRHVZN29ZJF4QSKOSJ&marketplace=FLIPKART&q=mobiles&store=tyy%2F4io&srno=s\_1\_24&otracker=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&otracker1=AS\_Query\_TrendingAutoSuggest\_1\_0\_na\_na\_na&fm=organic&iid=feb16949-422f-4bbe-a554-edb555bb47c1.MOBGDRHVZN29ZJF4.SEARCH&ppt=None&ppn=None&ssid=wt4jo0xnjk0000001653978019271&qH=eb4af0bf07c16429']

In [31]:

```
df=pd.DataFrame()
df['Name']=name[0:24]
df['Price']=price[0:24]
df['Rating']=ratings[0:24]
df['Images']=images[0:24]
df['Links']=links[0:24]
```

In [32]:

```
df.to_csv('mobiles_data.csv')
```

In [ ]: