

```
In [19]: from flask import Flask, render_template, request, jsonify
from flask_cors import CORS, cross_origin
import requests
from bs4 import BeautifulSoup as bs
from urllib.request import urlopen as uReq
```

```
In [29]: search=input('Enter the input to search',)
No_of_pages=int(input('Enter the no of pages to extract the information'))

product_name=[]
product_description=[]
product_price=[]
product_ratings=[]
product_image=[]

for i in range(1,No_of_pages+1,1):
    url='https://www.flipkart.com/search?q='
    flipkart_page=requests.get(url+search+"&page="+str(i))
    flipkart_html=bs(flipkart_page.text,'html.parser')
    products=flipkart_html.findAll('div',{'class':"_4rR01T"})
    Product_description=flipkart_html.findAll('ul',{'class':"_1xgFaf"})
    Product_price=flipkart_html.findAll('div',{'class':"_30jeq3 _1_WHN1"})
    Ratings=flipkart_html.findAll('div',{'class':"_3LWZlK"})[0:25]
    image_url=flipkart_html.findAll('div',{'class':"_2QcLo-"})

    for i in range(1,24):
        try:
            products[i].text==[]
            print(products[i].text)
            product_name.append(products[i].text)

        except:
            print('There is no such html tags')
        try:
            Product_description[i].text==[]
            print(Product_description[i].text)
            product_description.append(Product_description[i].text)

        except:
            print('There is no such html tags')
        try:
            Product_price[i].text==[]
            print(Product_price[i].text)
            product_price.append(Product_price[i].text)

        except:
            print('There is no such html tags')
        try:
            Ratings[0:25][i].text==[]
            print(Ratings[0:25][i].text)
            product_ratings.append(Ratings[0:25][i].text)

        except:
            print('There is no such html tags')
        try:
            image_url[i].div.div.img['src']==[]
            print(image_url[i].div.div.img['src'])
            product_image.append(image_url[i].div.div.img['src'])
```

```
except:
    print('There is no such html tags')
    print('\n')
```

Enter the input to searchiphone13  
Enter the no of pages to extract the information3  
APPLE iPhone 13 (Blue, 128 GB)  
128 GB ROM15.49 cm (6.1 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camer  
aA15 Bionic Chip ProcessorBrand Warranty for 1 Year  
₹74,900  
4.6  
<https://rukminim2.flixcart.com/image/312/312/ktketu80/mobile/s/n/i/iphone-13-mlpk3hn-a-apple-original-imag6vpyrhjqgqzw.jpeg?q=70>

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APPLE iPhone 13 (Midnight, 256 GB)  
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APPLE iPhone SE (Red, 128 GB)

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APPLE iPhone 11 (Purple, 128 GB)

128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front CameraA13 Bionic Chip ProcessorBrand Warranty of 1 Year

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APPLE iPhone 13 ((PRODUCT)RED, 512 GB)  
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APPLE iPhone 11 (Black, 128 GB)

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APPLE iPhone 11 (Purple, 64 GB)  
64 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
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APPLE iPhone 13 (Midnight, 256 GB)  
256 GB ROM15.49 cm (6.1 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera

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₹84,900

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APPLE iPhone SE (Red, 128 GB)

128 GB ROM11.94 cm (4.7 inch) Retina HD Display12MP Rear Camera | 7MP Front CameraA13 Bionic Chip with 3rd Gen Neural Engine ProcessorWater and Dust Resistant (1 meter for Upto 30 minutes, IP67)Fast Charge CapableWireless charging (Works with Qi Chargers | Qi Chargers are Sold SeparatelyBrand Warranty of 1 Year  
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APPLE iPhone 11 (Black, 64 GB)

64 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front CameraA13 Bionic Chip ProcessorBrand Warranty of 1 Year  
₹46,900

4.6

<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/y/n/y/apple-iphone-11-mhda3hn-a-original-imafrwqepdb3fxtug.jpeg?q=70>

APPLE iPhone 11 (White, 64 GB)

64 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front CameraA13 Bionic Chip ProcessorBrand Warranty of 1 Year  
₹46,900

4.6

<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/3/x/e/apple-iphone-11-mhdc3hn-a-original-imafrwqepx5yxwctc.jpeg?q=70>

APPLE iPhone 11 (White, 128 GB)

128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front CameraA13 Bionic Chip ProcessorBrand Warranty of 1 Year  
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APPLE iPhone 11 (Purple, 128 GB)

128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front CameraA13 Bionic Chip ProcessorBrand Warranty of 1 Year  
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APPLE iPhone 13 (Pink, 256 GB)  
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APPLE iPhone 13 (Starlight, 256 GB)  
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APPLE iPhone 11 (Purple, 64 GB)  
64 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
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APPLE iPhone 12 Mini (Green, 64 GB)  
64 GB ROM13.72 cm (5.4 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera  
A14 Bionic Chip with Next Generation Neural Engine ProcessorCeramic ShieldIndustry-leading IP68 Water ResistanceAll Screen OLED Display12MP TrueDepth Front Camera with Night Mode, 4K Dolby Vision HDR RecordingBrand Warranty for 1 Year  
₹49,999  
4.5  
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APPLE iPhone 13 (Midnight, 256 GB)  
256 GB ROM15.49 cm (6.1 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera  
A15 Bionic Chip ProcessorBrand Warranty for 1 Year  
₹84,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/ktketu80/mobile/f/c/g/iphone-13-mlpf3hn-a-apple-original-imag6vzzzfa5ndzm.jpeg?q=70>

APPLE iPhone SE (Red, 128 GB)  
128 GB ROM11.94 cm (4.7 inch) Retina HD Display12MP Rear Camera | 7MP Front CameraA13 Bionic Chip with 3rd Gen Neural Engine ProcessorWater and Dust Resistant (1 meter for Upto 30 minutes, IP67)Fast Charge CapableWireless charging (Works with Qi Chargers | Qi Chargers are Sold SeparatelyBrand Warranty of 1 Year  
₹35,499  
4.5  
<https://rukminim1.flixcart.com/image/312/312/k9locw0/mobile/6/8/g/apple-iphone-se-mxv2hn-a-original-imafrqcmfxhcrpsb.jpeg?q=70>

APPLE iPhone 11 (Black, 64 GB)  
64 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
A13 Bionic Chip ProcessorBrand Warranty of 1 Year  
₹46,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/y/n/y/apple-iphone-11-mhda3hn-a-original-imafrwqepdb3fxtug.jpeg?q=70>

APPLE iPhone 11 (White, 64 GB)  
64 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
A13 Bionic Chip ProcessorBrand Warranty of 1 Year  
₹46,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/3/x/e/apple-iphone-11-mhdc3hn-a-original-imafrwqepx5yxwctc.jpeg?q=70>

APPLE iPhone 11 (White, 128 GB)  
128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
A13 Bionic Chip ProcessorBrand Warranty of 1 Year  
₹51,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/d/d/s/apple-iphone-11-mhdj3hn-a-original-imafrwqepmfedbb2.jpeg?q=70>

APPLE iPhone 11 (Purple, 128 GB)  
128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
A13 Bionic Chip ProcessorBrand Warranty of 1 Year  
₹51,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/x/g/b/apple-iphone-11-mhdm3hn-a-original-imafwqepgzwwucu.jpeg?q=70>

APPLE iPhone SE (Red, 64 GB)  
64 GB ROM11.94 cm (4.7 inch) Retina HD Display12MP Rear Camera | 7MP Front Camera  
A13 Bionic Chip with 3rd Gen Neural Engine ProcessorWater and Dust Resistant (1 meter for  
Up to 30 minutes, IP67)Fast Charge CapableWireless charging (Works with Qi Chargers  
| Qi Chargers are Sold SeparatelyBrand Warranty of 1 Year  
₹30,499  
4.5  
<https://rukminim1.flixcart.com/image/312/312/k9locw0/mobile/6/8/g/apple-iphone-se-mxvv2hn-a-original-imafrcqmfxhcrpsb.jpeg?q=70>

APPLE iPhone 13 (Pink, 256 GB)  
256 GB ROM15.49 cm (6.1 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera  
A15 Bionic Chip ProcessorBrand Warranty for 1 Year  
₹84,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/ktketu80/mobile/z/r/x/iphone-13-mlph3hn-a-apple-original-imag6vzz4rt8t7gk.jpeg?q=70>

APPLE iPhone 13 (Blue, 256 GB)  
256 GB ROM15.49 cm (6.1 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera  
A15 Bionic Chip ProcessorBrand Warranty for 1 Year  
₹84,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/ktketu80/mobile/s/n/i/iphone-13-mlpk3hn-a-apple-original-imag6vpyrhqjgqzw.jpeg?q=70>

APPLE iPhone 13 (Starlight, 256 GB)  
256 GB ROM15.49 cm (6.1 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera  
A15 Bionic Chip ProcessorBrand Warranty for 1 Year  
₹84,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/ktketu80/mobile/h/w/1/iphone-13-mlpg3hn-a-apple-original-imag6vpy84hrnjyz.jpeg?q=70>

APPLE iPhone 13 ((PRODUCT)RED, 256 GB)  
256 GB ROM15.49 cm (6.1 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera  
A15 Bionic Chip ProcessorBrand Warranty for 1 Year  
₹84,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/ktketu80/mobile/e/e/r/iphone-13-mlpj3hn-a-apple-original-imag6vpykhzqhmgh.jpeg?q=70>

APPLE iPhone 13 ((PRODUCT)RED, 512 GB)  
512 GB ROM15.49 cm (6.1 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera  
A15 Bionic Chip ProcessorBrand Warranty for 1 Year  
₹1,04,900  
4.6  
<https://rukminim1.flixcart.com/image/312/312/ktketu80/mobile/e/e/r/iphone-13-mlpj3hn>

-a-apple-original-imag6vpykhzqhmgh.jpeg?q=70

APPLE iPhone 13 (Green, 128 GB)

128 GB ROM15.49 cm (6.1 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera  
A15 Bionic Chip ProcessorBrand Warranty for 1 Year

₹74,900

4.6

<https://rukminim1.flixcart.com/image/312/312/l0igvw0/mobile/r/q/m/-original-imagca5ajerqpfjy.jpeg?q=70>

APPLE iPhone 11 (Red, 64 GB)

64 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
A13 Bionic Chip ProcessorBrand Warranty of 1 Year

₹46,900

4.6

<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/c/u/7/apple-iphone-11-mhdd3hn-a-original-imafwqephghanvyr.jpeg?q=70>

APPLE iPhone 11 (Black, 128 GB)

128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
A13 Bionic Chip ProcessorBrand Warranty of 1 Year

₹51,900

4.6

<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/5/x/8/apple-iphone-11-mhdd3hn-a-original-imafwqepcdfxrmhn.jpeg?q=70>

APPLE iPhone 11 (Purple, 64 GB)

64 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
A13 Bionic Chip ProcessorBrand Warranty of 1 Year

₹46,900

4.6

<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/g/k/e/apple-iphone-11-mhdf3hn-a-original-imafwqepygpkngez.jpeg?q=70>

APPLE iPhone 11 (Green, 128 GB)

128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
A13 Bionic Chip ProcessorBrand Warranty of 1 Year

₹51,900

4.6

<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/4/b/f/apple-iphone-11-mhdd3hn-a-original-imafwqeps9gkq9zd.jpeg?q=70>

APPLE iPhone 11 (Red, 128 GB)

128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD Display12MP + 12MP | 12MP Front Camera  
A13 Bionic Chip ProcessorBrand Warranty of 1 Year

₹51,900

4.6

<https://rukminim1.flixcart.com/image/312/312/kgiaykw0/mobile/5/9/g/apple-iphone-11-mhdd3hn-a-original-imafwqepg5dyc5dz.jpeg?q=70>

APPLE iPhone 12 Mini (Green, 64 GB)

64 GB ROM13.72 cm (5.4 inch) Super Retina XDR Display12MP + 12MP | 12MP Front Camera  
A14 Bionic Chip with Next Generation Neural Engine ProcessorCeramic ShieldIndustry-leading IP68 Water ResistanceAll Screen OLED Display12MP TrueDepth Front Camera with Night Mode, 4K Dolby Vision HDR RecordingBrand Warranty for 1 Year

₹49,999

4.5

<https://rukminim1.flixcart.com/image/312/312/kg8avm80/mobile/h/v/w/apple-iphone-12-mini-dummyapplefsn-original-imafwgb2zuc9gwgb.jpeg?q=70>

```
In [21]: import pandas as pd
```

```
In [30]: df=pd.DataFrame({"Product_name": product_name, "Product_Description": product_descri  
                        'Product_price': product_price, 'Product_ratings': product_rati
```

```
In [31]: df
```

```
Out[31]:
```

	Product_name	Product_Description	Product_price	Product_ratings
0	APPLE iPhone 13 (Blue, 128 GB)	128 GB ROM15.49 cm (6.1 inch) Super Retina XDR...	₹74,900	4.6 <a href="https://rukminim2.flixcart.com">https://rukminim2.flixcart.com</a> ,
1	APPLE iPhone 13 ((PRODUCT)RED, 128 GB)	128 GB ROM15.49 cm (6.1 inch) Super Retina XDR...	₹74,900	4.6 <a href="https://rukminim2.flixcart.com">https://rukminim2.flixcart.com</a> ,
2	APPLE iPhone 13 (Starlight, 128 GB)	128 GB ROM15.49 cm (6.1 inch) Super Retina XDR...	₹74,900	4.6 <a href="https://rukminim2.flixcart.com">https://rukminim2.flixcart.com</a> ,
3	APPLE iPhone 13 (Pink, 128 GB)	128 GB ROM15.49 cm (6.1 inch) Super Retina XDR...	₹74,900	4.6 <a href="https://rukminim2.flixcart.com">https://rukminim2.flixcart.com</a> ,
4	APPLE iPhone 13 (Midnight, 256 GB)	256 GB ROM15.49 cm (6.1 inch) Super Retina XDR...	₹84,900	4.6 <a href="https://rukminim2.flixcart.com">https://rukminim2.flixcart.com</a> ,
...	...	...	...	...
64	APPLE iPhone 11 (Black, 128 GB)	128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD...	₹51,900	4.6 <a href="https://rukminim1.flixcart.com">https://rukminim1.flixcart.com</a> ,
65	APPLE iPhone 11 (Purple, 64 GB)	64 GB ROM15.49 cm (6.1 inch) Liquid Retina HD ...	₹46,900	4.6 <a href="https://rukminim1.flixcart.com">https://rukminim1.flixcart.com</a> ,
66	APPLE iPhone 11 (Green, 128 GB)	128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD...	₹51,900	4.6 <a href="https://rukminim1.flixcart.com">https://rukminim1.flixcart.com</a> ,
67	APPLE iPhone 11 (Red, 128 GB)	128 GB ROM15.49 cm (6.1 inch) Liquid Retina HD...	₹51,900	4.6 <a href="https://rukminim1.flixcart.com">https://rukminim1.flixcart.com</a> ,
68	APPLE iPhone 12 Mini (Green, 64 GB)	64 GB ROM13.72 cm (5.4 inch) Super Retina XDR ...	₹49,999	4.5 <a href="https://rukminim1.flixcart.com">https://rukminim1.flixcart.com</a> ,

69 rows × 5 columns



```
In [32]: df.to_csv('flipkart.csv')
```

In [33]: `df.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 69 entries, 0 to 68
Data columns (total 5 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Product_name          69 non-null    object
1   Product_Description    69 non-null    object
2   Product_price          69 non-null    object
3   Product_ratings        69 non-null    object
4   Image                  69 non-null    object
dtypes: object(5)
memory usage: 2.8+ KB
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: