Web Scraping

- PROGRAMMING LANGUAGE USED IN CODE:
  - **Python**

- CORE MECHANISM USED IN CODE:
  - **Beautiful soup(Version-04)**
  - **Pandas**

- PLATFORM USED FOR CODE:
  - **Jupyter Notebook(Version-5.7.0)**
  - **Anaconda(Version-5.2.2)**

- PYTHON MECHANISM USED IN CODE:
  - **Format page()**
  - **List[]**
  - **Dictionary{}**

- WEBPAGE DATA:
  - The webpage contains IPhone XS and other IPhones case and covers.
  - There are 31 pages of products are available in the webpage of the flipcart (IPhone xs case & covers)
  - The Url-link and the search engine details are:

→ C   🔒 https://www.flipkart.com/search?q=iphone+xs+case&sid=tyy%2C4mr%2Cq2u%2Cajg&as=on&as-show=on&otracker=AS_QueryStore_HistoryAutoSuggest_0_...

Flipkart Join Plus ◇   iphone xs case   🔍   BHARATHKUMAR ⌄   More ⌄

Electronics ⌄   TVs & Appliances ⌄   Men ⌄   Women ⌄   Baby & Kids ⌄   Home & Furniture ⌄   Sports, Books & More ⌄

- CODE DESCRIPTION:
  - The Objective of the code is to extract the data from the flipcart page and convert the raw data into a Csv-file
  - The data extraction is achieved by using python major packages such as Beautiful-soup and requests module.
  - The extracted data should be stored in a dictionary as a key-value pairs.
  - Then by using the Pandas module the raw data should be converted as a dataframe and stored in a Csv file
  - The resultant Csv file gives the final output of the data extraction

SAMPLE OUTPUT:

```
Flipcart IPHONE XS MAX MOBILE ACCESSORIES PAGE_
Total number of pages 31
Enter the page-number to be scraped6
```

Out[3]:

	model_name	offers	price
0	WINDSHAN Back Cover for Apple iPhone XS	[60% off]	₹235
1	WINDSHAN Back Cover for Apple iPhone XS	[66% off]	₹235
2	Mocell Back Cover for Apple iPhone XS	[78% off]	₹278
3	REALIKE Back Cover for Apple iPhone XS	[46% off]	₹799
4	Case-Mate Back Cover for Apple iPhone XS, Appl...	[17% off]	₹1,395
5	Saiarth Styles Back Cover for Apple iPhone XS	[65% off]	₹349
6	MR Mobile Hub Back Cover for Apple iPhone XS	[16% off]	₹2,499
7	XRP Back Cover for Apple iPhone XS	[82% off]	₹140
8	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
9	Spigen Back Cover for Apple iPhone XS	[23% off]	₹2,219
10	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
11	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
12	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
13	Openbuy Back Cover for Apple iPhone XS	[84% off]	₹152
14	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
15	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
16	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
17	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
18	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
19	Openbuy Back Cover for Apple iPhone XS	[84% off]	₹152
20	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
21	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
22	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
23	Vodex Back Cover for Apple iPhone XS, Apple iP...	[20% off]	₹1,199
24	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
25	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
26	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
27	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
28	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
29	Vodex Flip Cover for Apple iPhone XS, Apple iP...	[20% off]	₹1,199
30	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
31	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
32	Coolbug Back Cover for Apple iPhone XS	[69% off]	₹198
33	Vodex Flip Cover for Apple iPhone XS, Apple iP...	[20% off]	₹1,199
34	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
35	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
36	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
37	Kgl King Back Cover for Apple iPhone XS	[76% off]	₹139
38	Kgl King Back Cover for Apple iPhone XS	[75% off]	₹149
39	Vodex Flip Cover for Apple iPhone XS, Apple iP...	[20% off]	₹1,199