

In [1]:

```
import pandas as pd
import numpy as np
```

In [6]:

```
df1=pd.read_csv('NIFTY50_all.csv')
```

In [7]:

```
df1.head()
```

Out[7]:

	Date	Symbol	Series	Prev Close	Open	High	Low	Last	Close	VWAP	Volume	
0	2007-11-27	MUNDRAPORT	EQ	440.00	770.00	1050.00	770.0	959.0	962.90	984.72	27294366	2.687
1	2007-11-28	MUNDRAPORT	EQ	962.90	984.00	990.00	874.0	885.0	893.90	941.38	4581338	4.312
2	2007-11-29	MUNDRAPORT	EQ	893.90	909.00	914.75	841.0	887.0	884.20	888.09	5124121	4.550
3	2007-11-30	MUNDRAPORT	EQ	884.20	890.00	958.00	890.0	929.0	921.55	929.17	4609762	4.285
4	2007-12-03	MUNDRAPORT	EQ	921.55	939.75	995.00	922.0	980.0	969.30	965.65	2977470	2.875

In [8]:

```
df1.tail()
```

Out[8]:

	Date	Symbol	Series	Prev Close	Open	High	Low	Last	Close	VWAP	Volume	Ti
235187	2021-04-26	ZEEL	EQ	188.00	190.6	191.10	185.10	186.70	186.40	187.35	8542755	1.6004
235188	2021-04-27	ZEEL	EQ	186.40	188.0	192.95	186.80	188.80	188.15	189.41	14247767	2.6986
235189	2021-04-28	ZEEL	EQ	188.15	188.8	190.60	187.10	188.95	189.10	188.85	8429439	1.5919
235190	2021-04-29	ZEEL	EQ	189.10	190.8	191.65	186.00	186.60	186.55	187.44	9483009	1.7774
235191	2021-04-30	ZEEL	EQ	186.55	185.3	190.95	183.65	185.00	185.60	187.53	11435285	2.1444

In [9]:

```
df2=pd.read_csv('stock_metadata.csv')
```

In [10]:

```
df2.head()
```

Out[10]:

	Company Name	Industry	Symbol	Series	ISIN Code
0	Adani Ports and Special Economic Zone Ltd.	SERVICES	ADANIPORTS	EQ	INE742F01042
1	Asian Paints Ltd.	CONSUMER GOODS	ASIANPAINT	EQ	INE021A01026
2	Axis Bank Ltd.	FINANCIAL SERVICES	AXISBANK	EQ	INE238A01034
3	Bajaj Auto Ltd.	AUTOMOBILE	BAJAJ-AUTO	EQ	INE917I01010
4	Bajaj Finserv Ltd.	FINANCIAL SERVICES	BAJAJFINSV	EQ	INE918I01018

In [12]:

```
df=pd.merge(df1,df2,on='Symbol',how='outer')
```

In [13]:

```
df
```

Out[13]:

	Date	Symbol	Series_x	Prev Close	Open	High	Low	Last	Close	VWAP	Volun
0	2012-01-17	ADANIPORTS	EQ	135.50	137.10	141.00	135.00	140.10	140.00	138.13	1636196
1	2012-01-18	ADANIPORTS	EQ	140.00	142.00	143.80	138.70	143.00	141.70	141.25	890591
2	2012-01-19	ADANIPORTS	EQ	141.70	144.00	150.55	143.15	149.50	149.40	146.72	1456077
3	2012-01-20	ADANIPORTS	EQ	149.40	151.90	157.60	150.25	155.40	155.40	153.76	1634070
4	2012-01-23	ADANIPORTS	EQ	155.40	155.40	155.40	145.10	146.40	146.75	149.54	1657609
...	...	...	...	...	...	...	...	...	...	...	...
235188	2007-02-21	ZEETELE	EQ	249.75	254.45	259.00	249.00	254.40	255.15	254.73	1587042
235189	2007-02-22	ZEETELE	EQ	255.15	256.90	259.70	250.30	252.25	254.10	255.37	2035216
235190	2007-02-23	ZEETELE	EQ	254.10	255.80	255.80	244.50	249.10	248.75	248.55	978816
235191	2007-02-26	ZEETELE	EQ	248.75	253.80	253.80	242.80	244.70	244.30	246.03	833714

	Date	Symbol	Series_x	Prev Close	Open	High	Low	Last	Close	VWAP	Volun
235192	2007-02-27	ZEETELE	EQ	244.30	246.00	248.15	231.00	239.70	238.35	239.02	2745979

235193 rows × 19 columns

In [14]:

```
df.to_csv('merged_file.csv', index=False)
```

In [15]:

```
df=pd.read_csv('merged_file.csv')
```

In [16]:

```
df['% Change']=(df['Close']-df['Open'])/df['Open']*100
```

In [17]:

```
df.to_csv('merged_file.csv', index=False)
```

In [ ]: