```
In [52]:  import pandas as pd
          import yfinance as yf
          # pd.read_csv("")
          #Tata TATAMTRDVR csv download from yahoo finance
          data=yf.download("TATAMTRDVR.NS")
          data
```

[*********************100%***********************] 1 of 1 completed

Out[52]:

Date	Open	High	Low	Close	Adj Close	Volume
2008-11-05	30.049999	53.799999	30.049999	47.619999	41.277805	35770
2008-11-06	42.000000	47.970001	42.000000	43.860001	38.018578	220
2008-11-07	45.799999	52.340000	36.009998	48.200001	41.780552	1250
2008-11-10	55.000000	57.200001	42.099998	47.680000	41.329815	2505
2008-11-11	53.400002	56.000000	45.110001	51.720001	44.831757	450
...	...	...	...	...	...	...
2024-08-19	754.150024	758.400024	743.750000	749.049988	749.049988	1653217
2024-08-20	750.950012	756.000000	746.000000	749.250000	749.250000	13993987
2024-08-21	750.000000	753.650024	744.950012	746.900024	746.900024	5715685
2024-08-22	747.500000	748.000000	731.950012	735.299988	735.299988	8164673
2024-08-23	734.349976	756.000000	731.950012	749.200012	749.200012	14932981

3893 rows × 6 columns

```
In [2]:  !pip install yfinance
```

```
Collecting yfinance
  Downloading yfinance-0.2.43-py2.py3-none-any.whl.metadata (11 kB)
Requirement already satisfied: pandas>=1.3.0 in g:\anaconda\anaconda notebook\lib\site-packages (from yfinance)
(2.2.2)
Requirement already satisfied: numpy>=1.16.5 in g:\anaconda\anaconda notebook\lib\site-packages (from yfinance) (1.2
6.4)
Requirement already satisfied: requests>=2.31 in g:\anaconda\anaconda notebook\lib\site-packages (from yfinance) (2.3
2.2)
Collecting multitasking>=0.0.7 (from yfinance)
  Using cached multitasking-0.0.11-py3-none-any.whl.metadata (5.5 kB)
Requirement already satisfied: lxml>=4.9.1 in g:\anaconda\anaconda notebook\lib\site-packages (from yfinance) (5.2.1)
Requirement already satisfied: platformdirs>=2.0.0 in g:\anaconda\anaconda notebook\lib\site-packages (from yfinance)
(3.10.0)
Requirement already satisfied: pytz>=2022.5 in g:\anaconda\anaconda notebook\lib\site-packages (from yfinance) (202
4.1)
Requirement already satisfied: frozendict>=2.3.4 in g:\anaconda\anaconda notebook\lib\site-packages (from yfinance)
(2.4.2)
Collecting peewee>=3.16.2 (from yfinance)
  Using cached peewee-3.17.6-py3-none-any.whl
Requirement already satisfied: beautifulsoup4>=4.11.1 in g:\anaconda\anaconda notebook\lib\site-packages (from yfinan
ce) (4.12.3)
Collecting html5lib>=1.1 (from yfinance)
  Using cached html5lib-1.1-py2.py3-none-any.whl.metadata (16 kB)
Requirement already satisfied: soupsieve>1.2 in g:\anaconda\anaconda notebook\lib\site-packages (from beautifulsoup4>
=4.11.1->yfinance) (2.5)
Requirement already satisfied: six>=1.9 in g:\anaconda\anaconda notebook\lib\site-packages (from html5lib>=1.1->yfina
nce) (1.16.0)
Requirement already satisfied: webencodings in g:\anaconda\anaconda notebook\lib\site-packages (from html5lib>=1.1->y
finance) (0.5.1)
Requirement already satisfied: python-dateutil>=2.8.2 in g:\anaconda\anaconda notebook\lib\site-packages (from pandas
>=1.3.0->yfinance) (2.9.0.post0)
Requirement already satisfied: tzdata>=2022.7 in g:\anaconda\anaconda notebook\lib\site-packages (from pandas>=1.3.0-
>yfinance) (2023.3)
Requirement already satisfied: charset-normalizer<4,>=2 in g:\anaconda\anaconda notebook\lib\site-packages (from requ
ests>=2.31->yfinance) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in g:\anaconda\anaconda notebook\lib\site-packages (from requests>=2.31->
yfinance) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in g:\anaconda\anaconda notebook\lib\site-packages (from requests>=
2.31->yfinance) (2.2.2)
Requirement already satisfied: certifi>=2017.4.17 in g:\anaconda\anaconda notebook\lib\site-packages (from requests>=
2.31->yfinance) (2024.6.2)
Downloading yfinance-0.2.43-py2.py3-none-any.whl (84 kB)
```

```
--------------------------------------- 0.0/84.6 kB ? eta -:--:--
------------- ---------------------- 30.7/84.6 kB 660.6 kB/s eta 0:00:01
--------------------------------------- 84.6/84.6 kB 952.7 kB/s eta 0:00:00
Using cached html5lib-1.1-py2.py3-none-any.whl (112 kB)
Using cached multitasking-0.0.11-py3-none-any.whl (8.5 kB)
Installing collected packages: peewee, multitasking, html5lib, yfinance
Successfully installed html5lib-1.1 multitasking-0.0.11 peewee-3.17.6 yfinance-0.2.43
```

In [27]:
```python
#Tata TATAMTRDVR csv download from yahoo finance
reliance_data=yf.download("RELIANCE.NS")
reliance_data
```

`[*********************100%***********************]  1 of 1 completed`

Out[27]:

Date	Open	High	Low	Close	Adj Close	Volume
1996-01-01	14.638248	14.716795	14.541850	14.691803	9.270979	52060684
1996-01-02	14.656100	14.727506	14.470444	14.577553	9.198882	84371654
1996-01-03	14.816763	15.491551	14.656100	14.688232	9.268725	104661939
1996-01-04	14.548991	14.595404	14.356194	14.552561	9.183113	108450132
1996-01-05	14.495436	14.495436	14.327632	14.452592	9.120030	83354233
...	...	...	...	...	...	...
2024-08-19	2965.000000	2996.600098	2961.000000	2976.800049	2976.800049	6898871
2024-08-20	2994.449951	3007.850098	2980.050049	2991.899902	2991.899902	4205904
2024-08-21	2986.500000	3015.750000	2980.000000	2997.350098	2997.350098	3884998
2024-08-22	3006.000000	3013.000000	2981.300049	2996.250000	2996.250000	5222891
2024-08-23	3007.500000	3022.649902	2996.850098	2999.949951	2999.949951	4624827

7193 rows × 6 columns

In [29]:
```python
reliance_data.to_csv(r"G:\anaconda\data collection\Reliance Industries Limited.csv" ,index=False)
```

```
In [20]: hdfc_data=yf.download("HDFCBANK.NS")
         hdfc_data
```

[*********************100%***********************] 1 of 1 completed

Out[20]:

Date	Open	High	Low	Close	Adj Close	Volume
1996-01-01	3.030000	3.030000	2.925000	2.980000	2.331029	350000
1996-01-02	2.980000	3.025000	2.950000	2.975000	2.327118	412000
1996-01-03	2.975000	2.995000	2.950000	2.985000	2.334941	284000
1996-01-04	2.985000	2.980000	2.940000	2.965000	2.319296	282000
1996-01-05	2.965000	2.980000	2.950000	2.960000	2.315385	189000
...	...	...	...	...	...	...
2024-08-19	1637.650024	1637.650024	1623.699951	1631.550049	1631.550049	9751082
2024-08-20	1627.449951	1646.000000	1627.449951	1637.699951	1637.699951	15567247
2024-08-21	1628.099976	1634.550049	1617.800049	1625.800049	1625.800049	23815452
2024-08-22	1632.000000	1638.300049	1628.000000	1631.300049	1631.300049	10650319
2024-08-23	1634.000000	1634.000000	1623.000000	1625.050049	1625.050049	10166711

7196 rows × 6 columns

```
In [23]: hdfc_data.to_csv(r"G:\anaconda\data collection\HDFC Bank Limited.csv" ,index=False)
```

```
In [26]: # TATASTEEL.NS
         tata_steel_data=yf.download("TATASTEEL.NS");
         tata_steel_data.to_csv(r"G:\anaconda\data collection\Tata Steel Limited.csv" ,index=False)
```

[*********************100%***********************] 1 of 1 completed

```
In [30]: data
```

	Open	High	Low	Close	Adj Close	Volume
Date						
1996-01-01	14.638248	14.716795	14.541850	14.691803	9.270976	52060684
1996-01-02	14.656100	14.727506	14.470444	14.577553	9.198883	84371654
1996-01-03	14.816763	15.491551	14.656100	14.688232	9.268723	104661939
1996-01-04	14.548991	14.595404	14.356194	14.552561	9.183112	108450132
1996-01-05	14.495436	14.495436	14.327632	14.452592	9.120028	83354233
...	...	...	...	...	...	...
2024-08-19	2965.000000	2996.600098	2961.000000	2976.800049	2976.800049	6898871
2024-08-20	2994.449951	3007.850098	2980.050049	2991.899902	2991.899902	4205904
2024-08-21	2986.500000	3015.750000	2980.000000	2997.350098	2997.350098	3884998
2024-08-22	3006.000000	3013.000000	2981.300049	2996.250000	2996.250000	5222891
2024-08-23	3007.500000	3022.649902	2996.850098	2999.949951	2999.949951	4624827

7193 rows × 6 columns

```
reliance_data
```

Out[31]:

Date	Open	High	Low	Close	Adj Close	Volume
1996-01-01	14.638248	14.716795	14.541850	14.691803	9.270979	52060684
1996-01-02	14.656100	14.727506	14.470444	14.577553	9.198882	84371654
1996-01-03	14.816763	15.491551	14.656100	14.688232	9.268725	104661939
1996-01-04	14.548991	14.595404	14.356194	14.552561	9.183113	108450132
1996-01-05	14.495436	14.495436	14.327632	14.452592	9.120030	83354233
...	...	...	...	...	...	...
2024-08-19	2965.000000	2996.600098	2961.000000	2976.800049	2976.800049	6898871
2024-08-20	2994.449951	3007.850098	2980.050049	2991.899902	2991.899902	4205904
2024-08-21	2986.500000	3015.750000	2980.000000	2997.350098	2997.350098	3884998
2024-08-22	3006.000000	3013.000000	2981.300049	2996.250000	2996.250000	5222891
2024-08-23	3007.500000	3022.649902	2996.850098	2999.949951	2999.949951	4624827

7193 rows × 6 columns

In [32]: hdfc_data

	Open	High	Low	Close	Adj Close	Volume
Date						
1996-01-01	3.030000	3.030000	2.925000	2.980000	2.331029	350000
1996-01-02	2.980000	3.025000	2.950000	2.975000	2.327118	412000
1996-01-03	2.975000	2.995000	2.950000	2.985000	2.334941	284000
1996-01-04	2.985000	2.980000	2.940000	2.965000	2.319296	282000
1996-01-05	2.965000	2.980000	2.950000	2.960000	2.315385	189000
...	...	...	...	...	...	...
2024-08-19	1637.650024	1637.650024	1623.699951	1631.550049	1631.550049	9751082
2024-08-20	1627.449951	1646.000000	1627.449951	1637.699951	1637.699951	15567247
2024-08-21	1628.099976	1634.550049	1617.800049	1625.800049	1625.800049	23815452
2024-08-22	1632.000000	1638.300049	1628.000000	1631.300049	1631.300049	10650319
2024-08-23	1634.000000	1634.000000	1623.000000	1625.050049	1625.050049	10166711

7196 rows × 6 columns

```
tata_steel_data
```

	Open	High	Low	Close	Adj Close	Volume
Date						
1996-01-01	11.172855	11.214964	11.035300	11.186892	2.437990	10242229
1996-01-02	11.172855	11.214964	10.951082	10.979155	2.392717	16954313
1996-01-03	10.979155	11.229000	10.951082	10.981962	2.393329	13514114
1996-01-04	10.807913	10.807913	10.386825	10.633863	2.317466	34785820
1996-01-05	10.504730	10.555260	10.316644	10.423319	2.271582	30138033
...	...	...	...	...	...	...
2024-08-19	150.850006	154.300003	150.389999	153.960007	153.960007	62889770
2024-08-20	155.699997	155.699997	152.800003	153.929993	153.929993	37559016
2024-08-21	153.000000	154.179993	151.770004	151.919998	151.919998	49749381
2024-08-22	152.509995	154.350006	152.509995	154.139999	154.139999	36719176
2024-08-23	154.000000	154.389999	152.550003	154.199997	154.199997	31490857

7196 rows × 6 columns

In [45]:
```python
print("TATAMTRDVR data set columns " ,data.columns)
print("RELIANCE data set          ",reliance_data.columns)
print("HDFCBANK bank data set      ",hdfc_data.columns)
print("TATASTEEL data set          ",tata_steel_data.columns)
```

```
TATAMTRDVR data set columns  Index(['Open', 'High', 'Low', 'Close', 'Adj Close', 'Volume'], dtype='object')
RELIANCE data set            Index(['Open', 'High', 'Low', 'Close', 'Adj Close', 'Volume'], dtype='object')
HDFCBANK bank data set       Index(['Open', 'High', 'Low', 'Close', 'Adj Close', 'Volume'], dtype='object')
TATASTEEL data set           Index(['Open', 'High', 'Low', 'Close', 'Adj Close', 'Volume'], dtype='object')
```

In [51]:
```python
print("_____TATAMTRDVR data Type  _____\n" ,data.dtypes)
print("_____ RELIANCE data Type _____\n           ",reliance_data.dtypes)
print("_____HDFCBANK bank data Type _____\n       ",hdfc_data.dtypes)
print("_____TATASTEEL data Type _____ \n         ",tata_steel_data.dtypes)
```

```
_____TATAMTRDVR data Type  _____
 Open          float64
High          float64
Low           float64
Close         float64
Adj Close     float64
Volume          int64
dtype: object
_____  RELIANCE data Type _____
            Open          float64
High          float64
Low           float64
Close         float64
Adj Close     float64
Volume          int64
dtype: object
_____HDFCBANK bank data Type _____
        Open          float64
High          float64
Low           float64
Close         float64
Adj Close     float64
Volume          int64
dtype: object
_____TATASTEEL data Type _____
          Open          float64
High          float64
Low           float64
Close         float64
Adj Close     float64
Volume          int64
dtype: object
```

In [61]:
```python
download_csv=pd.read_csv("G:\\anaconda\\data collection\\EQUITY_L.csv")
download_csv
```

Out[61]:

	SYMBOL	NAME OF COMPANY	SERIES	DATE OF LISTING	PAID UP VALUE	MARKET LOT	ISIN NUMBER	FACE VALUE
0	20MICRONS	20 Microns Limited	EQ	6-Oct-08	5	1	INE144J01027	5
1	21STCENMGM	21st Century Management Services Limited	BE	3-May-95	10	1	INE253B01015	10
2	360ONE	360 ONE WAM LIMITED	EQ	19-Sep-19	1	1	INE466L01038	1
3	3IINFOLTD	3i Infotech Limited	EQ	22-Oct-21	10	1	INE748C01038	10
4	3MINDIA	3M India Limited	EQ	13-Aug-04	10	1	INE470A01017	10
...	...	...	...	...	...	...	...	...
1988	ZOTA	Zota Health Care LImited	EQ	19-Aug-19	10	1	INE358U01012	10
1989	ZUARI	Zuari Agro Chemicals Limited	EQ	27-Nov-12	10	1	INE840M01016	10
1990	ZUARIIND	ZUARI INDUSTRIES LIMITED	EQ	12-Apr-95	10	1	INE217A01012	10
1991	ZYDUSLIFE	Zydus Lifesciences Limited	EQ	18-Apr-00	1	1	INE010B01027	1
1992	ZYDUSWELL	Zydus Wellness Limited	EQ	13-Nov-09	10	1	INE768C01010	10

1993 rows × 8 columns

In [96]:
```python
for i in zip(download_csv.SYMBOL ,download_csv['NAME OF COMPANY']):
    print(i)
```

```
('20MICRONS', '20 Microns Limited')
('21STCENMGM', '21st Century Management Services Limited')
('360ONE', '360 ONE WAM LIMITED')
('3IINFOLTD', '3i Infotech Limited')
('3MINDIA', '3M India Limited')
('3PLAND', '3P Land Holdings Limited')
('5PAISA', '5Paisa Capital Limited')
('63MOONS', '63 moons technologies limited')
('A2ZINFRA', 'A2Z Infra Engineering Limited')
('AAATECH', 'AAA Technologies Limited')
('AADHARHFC', 'Aadhar Housing Finance Limited')
('AAKASH', 'Aakash Exploration Services Limited')
('AAREYDRUGS', 'Aarey Drugs & Pharmaceuticals Limited')
('AARON', 'Aaron Industries Limited')
('AARTECH', 'Aartech Solonics Limited')
('AARTIDRUGS', 'Aarti Drugs Limited')
('AARTIIND', 'Aarti Industries Limited')
('AARTIPHARM', 'Aarti Pharmalabs Limited')
('AARTISURF', 'Aarti Surfactants Limited')
('AARVEEDEN', 'Aarvee Denims & Exports Limited')
('AARVI', 'Aarvi Encon Limited')
('AAVAS', 'Aavas Financiers Limited')
('ABAN', 'Aban Offshore Limited')
('ABB', 'ABB India Limited')
('ABBOTINDIA', 'Abbott India Limited')
('ABCAPITAL', 'Aditya Birla Capital Limited')
('ABDL', 'Allied Blenders and Distillers Limited')
('ABFRL', 'Aditya Birla Fashion and Retail Limited')
('ABMINTLLTD', 'ABM International Limited')
('ABSLAMC', 'Aditya Birla Sun Life AMC Limited')
('ACC', 'ACC Limited')
('ACCELYA', 'Accelya Solutions India Limited')
('ACCURACY', 'Accuracy Shipping Limited')
('ACE', 'Action Construction Equipment Limited')
('ACEINTEG', 'Ace Integrated Solutions Limited')
('ACI', 'Archean Chemical Industries Limited')
('ACL', 'Andhra Cements Limited')
('ACLGATI', 'Allcargo Gati Limited')
('ADANIENSOL', 'Adani Energy Solutions Limited')
('ADANIENT', 'Adani Enterprises Limited')
('ADANIGREEN', 'Adani Green Energy Limited')
('ADANIPORTS', 'Adani Ports and Special Economic Zone Limited')
```

```
('ADANIPOWER', 'Adani Power Limited')
('ADFFOODS', 'ADF Foods Limited')
('ADL', 'Archidply Decor Limited')
('ADORWELD', 'Ador Welding Limited')
('ADROITINFO', 'Adroit Infotech Limited')
('ADSL', 'Allied Digital Services Limited')
('ADVANIHOTR', 'Advani Hotels & Resorts (India) Limited')
('ADVENZYMES', 'Advanced Enzyme Technologies Limited')
('AEGISLOG', 'Aegis Logistics Limited')
('AEROFLEX', 'Aeroflex Industries Limited')
('AETHER', 'Aether Industries Limited')
('AFFLE', 'Affle (India) Limited')
('AFIL', 'Akme Fintrade (India) Limited')
('AGARIND', 'Agarwal Industrial Corporation Limited')
('AGI', 'AGI Greenpac Limited')
('AGIIL', 'Agi Infra Limited')
('AGRITECH', 'Agri-Tech (India) Limited')
('AGROPHOS', 'Agro Phos India Limited')
('AGSTRA', 'AGS Transact Technologies Limited')
('AHL', 'Abans Holdings Limited')
('AHLADA', 'Ahlada Engineers Limited')
('AHLEAST', 'Asian Hotels (East) Limited')
('AHLUCONT', 'Ahluwalia Contracts (India) Limited')
('AIAENG', 'AIA Engineering Limited')
('AIIL', 'Authum Investment & Infrastructure Limited')
('AIRAN', 'Airan Limited')
('AIROLAM', 'Airo Lam limited')
('AJANTPHARM', 'Ajanta Pharma Limited')
('AJMERA', 'Ajmera Realty & Infra India Limited')
('AJOONI', 'Ajooni Biotech Limited')
('AKASH', 'Akash Infra-Projects Limited')
('AKG', 'Akg Exim Limited')
('AKI', 'AKI India Limited')
('AKSHAR', 'Akshar Spintex Limited')
('AKSHARCHEM', 'AksharChem India Limited')
('AKSHOPTFBR', 'Aksh Optifibre Limited')
('AKUMS', 'Akums Drugs and Pharmaceuticals Limited')
('AKZOINDIA', 'Akzo Nobel India Limited')
('ALANKIT', 'Alankit Limited')
('ALBERTDAVD', 'Albert David Limited')
('ALEMBICLTD', 'Alembic Limited')
('ALICON', 'Alicon Castalloy Limited')
```

```
('ALKALI', 'Alkali Metals Limited')
('ALKEM', 'Alkem Laboratories Limited')
('ALKYLAMINE', 'Alkyl Amines Chemicals Limited')
('ALLCARGO', 'Allcargo Logistics Limited')
('ALLSEC', 'Allsec Technologies Limited')
('ALMONDZ', 'Almondz Global Securities Limited')
('ALOKINDS', 'Alok Industries Limited')
('ALPA', 'Alpa Laboratories Limited')
('ALPHAGEO', 'Alphageo (India) Limited')
('ALPSINDUS', 'Alps Industries Limited')
('AMBER', 'Amber Enterprises India Limited')
('AMBICAAGAR', 'Ambica Agarbathies & Aroma industries Limited')
('AMBIKCO', 'Ambika Cotton Mills Limited')
('AMBUJACEM', 'Ambuja Cements Limited')
('AMDIND', 'AMD Industries Limited')
('AMIORG', 'Ami Organics Limited')
('AMJLAND', 'Amj Land Holdings Limited')
('AMNPLST', 'Amines & Plasticizers Limited')
('AMRUTANJAN', 'Amrutanjan Health Care Limited')
('ANANDRATHI', 'Anand Rathi Wealth Limited')
('ANANTRAJ', 'Anant Raj Limited')
('ANDHRAPAP', 'ANDHRA PAPER LIMITED')
('ANDHRSUGAR', 'The Andhra Sugars Limited')
('ANGELONE', 'Angel One Limited')
('ANIKINDS', 'Anik Industries Limited')
('ANMOL', 'Anmol India Limited')
('ANSALAPI', 'Ansal Properties & Infrastructure Limited')
('ANTGRAPHIC', 'Antarctica Limited')
('ANUP', 'The Anup Engineering Limited')
('ANURAS', 'Anupam Rasayan India Limited')
('APARINDS', 'Apar Industries Limited')
('APCL', 'Anjani Portland Cement Limited')
('APCOTEXIND', 'Apcotex Industries Limited')
('APEX', 'Apex Frozen Foods Limited')
('APLAPOLLO', 'APL Apollo Tubes Limited')
('APLLTD', 'Alembic Pharmaceuticals Limited')
('APOLLO', 'Apollo Micro Systems Limited')
('APOLLOHOSP', 'Apollo Hospitals Enterprise Limited')
('APOLLOPIPE', 'Apollo Pipes Limited')
('APOLLOTYRE', 'Apollo Tyres Limited')
('APOLSINHOT', 'Apollo Sindoori Hotels Limited')
('APTECHT', 'Aptech Limited')
```

('APTUS', 'Aptus Value Housing Finance India Limited')
('ARCHIDPLY', 'Archidply Industries Limited')
('ARCHIES', 'Archies Limited')
('ARE&M', 'Amara Raja Energy & Mobility Limited')
('ARENTERP', 'Rajdarshan Industries Limited')
('ARIES', 'Aries Agro Limited')
('ARIHANTCAP', 'Arihant Capital Markets Limited')
('ARIHANTSUP', 'Arihant Superstructures Limited')
('ARMANFIN', 'Arman Financial Services Limited')
('AROGRANITE', 'Aro Granite Industries Limited')
('ARROWGREEN', 'Arrow Greentech Limited')
('ARSHIYA', 'Arshiya Limited')
('ARSSINFRA', 'ARSS Infrastructure Projects Limited')
('ARTEMISMED', 'Artemis Medicare Services Limited')
('ARTNIRMAN', 'Art Nirman Limited')
('ARVEE', 'Arvee Laboratories (India) Limited')
('ARVIND', 'Arvind Limited')
('ARVINDFASN', 'Arvind Fashions Limited')
('ARVSMART', 'Arvind SmartSpaces Limited')
('ASAHIINDIA', 'Asahi India Glass Limited')
('ASAHISONG', 'Asahi Songwon Colors Limited')
('ASAL', 'Automotive Stampings and Assemblies Limited')
('ASALCBR', 'Associated Alcohols & Breweries Ltd.')
('ASHAPURMIN', 'Ashapura Minechem Limited')
('ASHIANA', 'Ashiana Housing Limited')
('ASHIMASYN', 'Ashima Limited')
('ASHOKA', 'Ashoka Buildcon Limited')
('ASHOKAMET', 'Ashoka Metcast Limited')
('ASHOKLEY', 'Ashok Leyland Limited')
('ASIANENE', 'Asian Energy Services Limited')
('ASIANHOTNR', 'Asian Hotels (North) Limited')
('ASIANPAINT', 'Asian Paints Limited')
('ASIANTILES', 'Asian Granito India Limited')
('ASKAUTOLTD', 'ASK Automotive Limited')
('ASMS', 'Bartronics India Limited')
('ASPINWALL', 'Aspinwall and Company Limited')
('ASTEC', 'Astec LifeSciences Limited')
('ASTERDM', 'Aster DM Healthcare Limited')
('ASTRAL', 'Astral Limited')
('ASTRAMICRO', 'Astra Microwave Products Limited')
('ASTRAZEN', 'AstraZeneca Pharma India Limited')
('ASTRON', 'Astron Paper & Board Mill Limited')

```
('ATALREAL', 'Atal Realtech Limited')
('ATAM', 'Atam Valves Limited')
('ATFL', 'Agro Tech Foods Limited')
('ATGL', 'Adani Total Gas Limited')
('ATL', 'Allcargo Terminals Limited')
('ATLANTAA', 'ATLANTAA LIMITED')
('ATUL', 'Atul Limited')
('ATULAUTO', 'Atul Auto Limited')
('AUBANK', 'AU Small Finance Bank Limited')
('AURIONPRO', 'Aurionpro Solutions Limited')
('AUROPHARMA', 'Aurobindo Pharma Limited')
('AURUM', 'Aurum PropTech Limited')
('AUSOMENT', 'Ausom Enterprise Limited')
('AUTOAXLES', 'Automotive Axles Limited')
('AUTOIND', 'Autoline Industries Limited')
('AVADHSUGAR', 'Avadh Sugar & Energy Limited')
('AVALON', 'Avalon Technologies Limited')
('AVANTEL', 'Avantel Limited')
('AVANTIFEED', 'Avanti Feeds Limited')
('AVG', 'AVG Logistics Limited')
('AVONMORE', 'Avonmore Capital & Management Services Limited')
('AVROIND', 'AVRO INDIA LIMITED')
('AVTNPL', 'AVT Natural Products Limited')
('AWFIS', 'Awfis Space Solutions Limited')
('AWHCL', 'Antony Waste Handling Cell Limited')
('AWL', 'Adani Wilmar Limited')
('AXISBANK', 'Axis Bank Limited')
('AXISCADES', 'AXISCADES Technologies Limited')
('AXITA', 'Axita Cotton Limited')
('AYMSYNTEX', 'AYM Syntex Limited')
('AZAD', 'Azad Engineering Limited')
('BAFNAPH', 'Bafna Pharmaceuticals Limited')
('BAGFILMS', 'B.A.G Films and Media Limited')
('BAIDFIN', 'Baid Finserv Limited')
('BAJAJ-AUTO', 'Bajaj Auto Limited')
('BAJAJCON', 'Bajaj Consumer Care Limited')
('BAJAJELEC', 'Bajaj Electricals Limited')
('BAJAJFINSV', 'Bajaj Finserv Limited')
('BAJAJHCARE', 'Bajaj Healthcare Limited')
('BAJAJHIND', 'Bajaj Hindusthan Sugar Limited')
('BAJAJHLDNG', 'Bajaj Holdings & Investment Limited')
('BAJEL', 'Bajel Projects Limited')
```

```
('BAJFINANCE', 'Bajaj Finance Limited')
('BALAJITELE', 'Balaji Telefilms Limited')
('BALAMINES', 'Balaji Amines Limited')
('BALAXI', 'BALAXI PHARMACEUTICALS LIMITED')
('BALKRISHNA', 'Balkrishna Paper Mills Limited')
('BALKRISIND', 'Balkrishna Industries Limited')
('BALMLAWRIE', 'Balmer Lawrie & Company Limited')
('BALPHARMA', 'Bal Pharma Limited')
('BALRAMCHIN', 'Balrampur Chini Mills Limited')
('BALUFORGE', 'Balu Forge Industries Limited')
('BANARBEADS', 'Banaras Beads Limited')
('BANARISUG', 'Bannari Amman Sugars Limited')
('BANCOINDIA', 'Banco Products (I) Limited')
('BANDHANBNK', 'Bandhan Bank Limited')
('BANG', 'Bang Overseas Limited')
('BANKA', 'Banka BioLoo Limited')
('BANKBARODA', 'Bank of Baroda')
('BANKINDIA', 'Bank of India')
('BANSALWIRE', 'Bansal Wire Industries Limited')
('BANSWRAS', 'Banswara Syntex Limited')
('BARBEQUE', 'Barbeque Nation Hospitality Limited')
('BASF', 'BASF India Limited')
('BASML', 'Bannari Amman Spinning Mills Limited')
('BATAINDIA', 'Bata India Limited')
('BAYERCROP', 'Bayer Cropscience Limited')
('BBL', 'Bharat Bijlee Limited')
('BBOX', 'Black Box Limited')
('BBTC', 'Bombay Burmah Trading Corporation Limited')
('BBTCL', 'B&B Triplewall Containers Limited')
('BCLIND', 'Bcl Industries Limited')
('BCONCEPTS', 'Brand Concepts Limited')
('BDL', 'Bharat Dynamics Limited')
('BEARDSELL', 'Beardsell Limited')
('BECTORFOOD', 'Mrs. Bectors Food Specialities Limited')
('BEDMUTHA', 'Bedmutha Industries Limited')
('BEL', 'Bharat Electronics Limited')
('BEML', 'BEML Limited')
('BEPL', 'Bhansali Engineering Polymers Limited')
('BERGEPAINT', 'Berger Paints (I) Limited')
('BESTAGRO', 'Best Agrolife Limited')
('BFINVEST', 'BF Investment Limited')
('BFUTILITIE', 'BF Utilities Limited')
```

('BGRENERGY', 'BGR Energy Systems Limited')
('BHAGCHEM', 'Bhagiradha Chemicals & Industries Limited')
('BHAGERIA', 'Bhageria Industries Limited')
('BHAGYANGR', 'Bhagyanagar India Limited')
('BHANDARI', 'Bhandari Hosiery Exports Limited')
('BHARATFORG', 'Bharat Forge Limited')
('BHARATGEAR', 'Bharat Gears Limited')
('BHARATRAS', 'Bharat Rasayan Limited')
('BHARATWIRE', 'Bharat Wire Ropes Limited')
('BHARTIARTL', 'Bharti Airtel Limited')
('BHARTIHEXA', 'Bharti Hexacom Limited')
('BHEL', 'Bharat Heavy Electricals Limited')
('BIGBLOC', 'Bigbloc Construction Limited')
('BIKAJI', 'Bikaji Foods International Limited')
('BIL', 'Bhartiya International Limited')
('BINANIIND', 'Binani Industries Limited')
('BIOCON', 'Biocon Limited')
('BIOFILCHEM', 'Biofil Chemicals & Pharmaceuticals Limited')
('BIRLACABLE', 'Birla Cable Limited')
('BIRLACORPN', 'Birla Corporation Limited')
('BIRLAMONEY', 'Aditya Birla Money Limited')
('BLAL', 'BEML Land Assets Limited')
('BLBLIMITED', 'BLB Limited')
('BLISSGVS', 'Bliss GVS Pharma Limited')
('BLKASHYAP', 'B. L. Kashyap and Sons Limited')
('BLS', 'BLS International Services Limited')
('BLSE', 'BLS E-Services Limited')
('BLUECHIP', 'Blue Chip India Limited')
('BLUEDART', 'Blue Dart Express Limited')
('BLUEJET', 'Blue Jet Healthcare Limited')
('BLUESTARCO', 'Blue Star Limited')
('BODALCHEM', 'Bodal Chemicals Limited')
('BOMDYEING', 'Bombay Dyeing & Mfg Company Limited')
('BOROLTD', 'Borosil Limited')
('BORORENEW', 'BOROSIL RENEWABLES LIMITED')
('BOROSCI', 'Borosil Scientific Limited')
('BOSCHLTD', 'Bosch Limited')
('BPCL', 'Bharat Petroleum Corporation Limited')
('BPL', 'BPL Limited')
('BRIGADE', 'Brigade Enterprises Limited')
('BRITANNIA', 'Britannia Industries Limited')
('BRNL', 'Bharat Road Network Limited')

```
('BROOKS', 'Brooks Laboratories Limited')
('BSE', 'BSE Limited')
('BSHSL', 'Bombay Super Hybrid Seeds Limited')
('BSL', 'BSL Limited')
('BSOFT', 'BIRLASOFT LIMITED')
('BTML', 'Bodhi Tree Multimedia Limited')
('BURNPUR', 'Burnpur Cement Limited')
('BUTTERFLY', 'Butterfly Gandhimathi Appliances Limited')
('BVCL', 'Barak Valley Cements Limited')
('BYKE', 'The Byke Hospitality Ltd')
('CALSOFT', 'California Software Company Limited')
('CAMLINFINE', 'Camlin Fine Sciences Limited')
('CAMPUS', 'Campus Activewear Limited')
('CAMS', 'Computer Age Management Services Limited')
('CANBK', 'Canara Bank')
('CANFINHOME', 'Can Fin Homes Limited')
('CANTABIL', 'Cantabil Retail India Limited')
('CAPACITE', "Capacit'e Infraprojects Limited")
('CAPITALSFB', 'Capital Small Finance Bank Limited')
('CAPLIPOINT', 'Caplin Point Laboratories Limited')
('CAPTRUST', 'Capital Trust Limited')
('CARBORUNIV', 'Carborundum Universal Limited')
('CAREERP', 'Career Point Limited')
('CARERATING', 'CARE Ratings Limited')
('CARTRADE', 'Cartrade Tech Limited')
('CARYSIL', 'CARYSIL LIMITED')
('CASTROLIND', 'Castrol India Limited')
('CCHHL', 'Country Club Hospitality & Holidays Limited')
('CCL', 'CCL Products (India) Limited')
('CDSL', 'Central Depository Services (India) Limited')
('CEATLTD', 'CEAT Limited')
('CEIGALL', 'Ceigall India Limited')
('CELEBRITY', 'Celebrity Fashions Limited')
('CELLO', 'Cello World Limited')
('CENTENKA', 'Century Enka Limited')
('CENTEXT', 'Century Extrusions Limited')
('CENTRALBK', 'Central Bank of India')
('CENTRUM', 'Centrum Capital Limited')
('CENTUM', 'Centum Electronics Limited')
('CENTURYPLY', 'Century Plyboards (India) Limited')
('CENTURYTEX', 'Century Textiles & Industries Limited')
('CERA', 'Cera Sanitaryware Limited')
```

```
('CEREBRAINT', 'Cerebra Integrated Technologies Limited')
('CESC', 'CESC Limited')
('CGCL', 'Capri Global Capital Limited')
('CGPOWER', 'CG Power and Industrial Solutions Limited')
('CHALET', 'Chalet Hotels Limited')
('CHAMBLFERT', 'Chambal Fertilizers & Chemicals Limited')
('CHEMBOND', 'Chembond Chemicals Ltd')
('CHEMCON', 'Chemcon Speciality Chemicals Limited')
('CHEMFAB', 'Chemfab Alkalis Limited')
('CHEMPLASTS', 'Chemplast Sanmar Limited')
('CHENNPETRO', 'Chennai Petroleum Corporation Limited')
('CHEVIOT', 'Cheviot Company Limited')
('CHOICEIN', 'Choice International Limited')
('CHOLAFIN', 'Cholamandalam Investment and Finance Company Limited')
('CHOLAHLDNG', 'Cholamandalam Financial Holdings Limited')
('CIEINDIA', 'CIE Automotive India Limited')
('CIGNITITEC', 'Cigniti Technologies Limited')
('CINELINE', 'Cineline India Limited')
('CINEVISTA', 'Cinevista Limited')
('CIPLA', 'Cipla Limited')
('CLEAN', 'Clean Science and Technology Limited')
('CLEDUCATE', 'CL Educate Limited')
('CLSEL', 'Chaman Lal Setia Exports Limited')
('CMSINFO', 'CMS Info Systems Limited')
('COALINDIA', 'Coal India Limited')
('COASTCORP', 'Coastal Corporation Limited')
('COCHINSHIP', 'Cochin Shipyard Limited')
('COFFEEDAY', 'Coffee Day Enterprises Limited')
('COFORGE', 'Coforge Limited')
('COLPAL', 'Colgate Palmolive (India) Limited')
('COMPUSOFT', 'Compucom Software Limited')
('COMSYN', 'Commercial Syn Bags Limited')
('CONCOR', 'Container Corporation of India Limited')
('CONCORDBIO', 'Concord Biotech Limited')
('CONFIPET', 'Confidence Petroleum India Limited')
('CONSOFINVT', 'Consolidated Finvest & Holdings Limited')
('CONTROLPR', 'Control Print Limited')
('CORALFINAC', 'Coral India Finance & Housing Limited')
('CORDSCABLE', 'Cords Cable Industries Limited')
('COROMANDEL', 'Coromandel International Limited')
('COSMOFIRST', 'COSMO FIRST LIMITED')
('COUNCODOS', "Country Condo's Limited")
```

('CRAFTSMAN', 'Craftsman Automation Limited')
('CREATIVE', 'Creative Newtech Limited')
('CREATIVEYE', 'Creative Eye Limited')
('CREDITACC', 'CREDITACCESS GRAMEEN LIMITED')
('CREST', 'Crest Ventures Limited')
('CRISIL', 'CRISIL Limited')
('CROMPTON', 'Crompton Greaves Consumer Electricals Limited')
('CROWN', 'Crown Lifters Limited')
('CSBBANK', 'CSB Bank Limited')
('CSLFINANCE', 'CSL Finance Limited')
('CTE', 'Cambridge Technology Enterprises Limited')
('CUB', 'City Union Bank Limited')
('CUBEXTUB', 'Cubex Tubings Limited')
('CUMMINSIND', 'Cummins India Limited')
('CUPID', 'Cupid Limited')
('CYBERMEDIA', 'Cyber Media (India) Limited')
('CYBERTECH', 'Cybertech Systems And Software Limited')
('CYIENT', 'Cyient Limited')
('CYIENTDLM', 'Cyient DLM Limited')
('DABUR', 'Dabur India Limited')
('DALBHARAT', 'Dalmia Bharat Limited')
('DALMIASUG', 'Dalmia Bharat Sugar and Industries Limited')
('DAMODARIND', 'Damodar Industries Limited')
('DANGEE', 'Dangee Dums Limited')
('DATAMATICS', 'Datamatics Global Services Limited')
('DATAPATTNS', 'Data Patterns (India) Limited')
('DAVANGERE', 'Davangere Sugar Company Limited')
('DBCORP', 'D.B.Corp Limited')
('DBL', 'Dilip Buildcon Limited')
('DBOL', 'Dhampur Bio Organics Limited')
('DBREALTY', 'Valor Estate Limited')
('DBSTOCKBRO', 'DB (International) Stock Brokers Limited')
('DCAL', 'Dishman Carbogen Amcis Limited')
('DCBBANK', 'DCB Bank Limited')
('DCI', 'Dc Infotech And Communication Limited')
('DCM', 'DCM Limited')
('DCMFINSERV', 'DCM Financial Services Limited')
('DCMNVL', 'DCM Nouvelle Limited')
('DCMSHRIRAM', 'DCM Shriram Limited')
('DCMSRIND', 'DCM Shriram Industries Limited')
('DCW', 'DCW Limited')
('DCXINDIA', 'DCX Systems Limited')

```
('DECCANCE', 'Deccan Cements Limited')
('DEEDEV', 'DEE Development Engineers Limited')
('DEEPAKFERT', 'Deepak Fertilizers and Petrochemicals Corporation Limited')
('DEEPAKNTR', 'Deepak Nitrite Limited')
('DEEPENR', 'DEEP ENERGY RESOURCES LIMITED')
('DEEPINDS', 'Deep Industries Limited')
('DELHIVERY', 'Delhivery Limited')
('DELPHIFX', 'DELPHI WORLD MONEY LIMITED')
('DELTACORP', 'Delta Corp Limited')
('DELTAMAGNT', 'Delta Manufacturing Limited')
('DEN', 'Den Networks Limited')
('DENORA', 'De Nora India Limited')
('DEVIT', 'Dev Information Technology Limited')
('DEVYANI', 'Devyani International Limited')
('DGCONTENT', 'Digicontent Limited')
('DHAMPURSUG', 'Dhampur Sugar Mills Limited')
('DHANBANK', 'Dhanlaxmi Bank Limited')
('DHANI', 'Dhani Services Limited')
('DHANUKA', 'Dhanuka Agritech Limited')
('DHARMAJ', 'Dharmaj Crop Guard Limited')
('DHRUV', 'Dhruv Consultancy Services Limited')
('DHUNINV', 'Dhunseri Investments Limited')
('DIACABS', 'Diamond Power Infrastructure Limited')
('DIAMINESQ', 'Diamines & Chemicals Limited')
('DIAMONDYD', 'Prataap Snacks Limited')
('DICIND', 'DIC India Limited')
('DIGIDRIVE', 'Digidrive Distributors Limited')
('DIGISPICE', 'DiGiSPICE Technologies Limited')
('DIGJAMLMTD', 'Digjam Limited')
('DIL', 'Debock Industries Limited')
('DISHTV', 'Dish TV India Limited')
('DIVGIITTS', 'Divgi Torqtransfer Systems Limited')
('DIVISLAB', "Divi's Laboratories Limited")
('DIXON', 'Dixon Technologies (India) Limited')
('DJML', 'DJ Mediaprint & Logistics Limited')
('DLF', 'DLF Limited')
('DLINKINDIA', 'D-Link (India) Limited')
('DMART', 'Avenue Supermarts Limited')
('DMCC', 'DMCC SPECIALITY CHEMICALS LIMITED')
('DNAMEDIA', 'Diligent Media Corporation Limited')
('DODLA', 'Dodla Dairy Limited')
('DOLATALGO', 'Dolat Algotech Limited')
```

```
('DOLLAR', 'Dollar Industries Limited')
('DOLPHIN', 'Dolphin Offshore Enterprises (India) Limited')
('DOMS', 'DOMS Industries Limited')
('DONEAR', 'Donear Industries Limited')
('DPABHUSHAN', 'D. P. Abhushan Limited')
('DPSCLTD', 'DPSC Limited')
('DPWIRES', 'D P Wires Limited')
('DRCSYSTEMS', 'DRC Systems India Limited')
('DREAMFOLKS', 'Dreamfolks Services Limited')
('DREDGECORP', 'Dredging Corporation of India Limited')
('DRREDDY', "Dr. Reddy's Laboratories Limited")
('DSSL', 'Dynacons Systems & Solutions Limited')
('DTIL', 'Dhunseri Tea & Industries Limited')
('DUCON', 'Ducon Infratechnologies Limited')
('DVL', 'Dhunseri Ventures Limited')
('DWARKESH', 'Dwarikesh Sugar Industries Limited')
('DYCL', 'Dynamic Cables Limited')
('DYNAMATECH', 'Dynamatic Technologies Limited')
('DYNPRO', 'Dynemic Products Limited')
('E2E', 'E2E Networks Limited')
('EASEMYTRIP', 'Easy Trip Planners Limited')
('ECLERX', 'eClerx Services Limited')
('EDELWEISS', 'Edelweiss Financial Services Limited')
('EICHERMOT', 'Eicher Motors Limited')
('EIDPARRY', 'EID Parry India Limited')
('EIFFL', 'Euro India Fresh Foods Limited')
('EIHAHOTELS', 'EIH Associated Hotels Limited')
('EIHOTEL', 'EIH Limited')
('EIMCOELECO', 'Eimco Elecon (India) Limited')
('EKC', 'Everest Kanto Cylinder Limited')
('ELDEHSG', 'Eldeco Housing And Industries Limited')
('ELECON', 'Elecon Engineering Company Limited')
('ELECTCAST', 'Electrosteel Castings Limited')
('ELECTHERM', 'Electrotherm (India) Limited')
('ELGIEQUIP', 'Elgi Equipments Limited')
('ELGIRUBCO', 'Elgi Rubber Company Limited')
('ELIN', 'Elin Electronics Limited')
('EMAMILTD', 'Emami Limited')
('EMAMIPAP', 'Emami Paper Mills Limited')
('EMAMIREAL', 'Emami Realty Limited')
('EMBDL', 'Equinox India Developments Limited')
('EMCURE', 'Emcure Pharmaceuticals Limited')
```

```
('EMIL', 'Electronics Mart India Limited')
('EMKAY', 'Emkay Global Financial Services Limited')
('EMMBI', 'Emmbi Industries Limited')
('EMSLIMITED', 'EMS Limited')
('EMUDHRA', 'eMudhra Limited')
('ENDURANCE', 'Endurance Technologies Limited')
('ENERGYDEV', 'Energy Development Company Limited')
('ENGINERSIN', 'Engineers India Limited')
('ENIL', 'Entertainment Network (India) Limited')
('ENTERO', 'Entero Healthcare Solutions Limited')
('EPACK', 'EPACK Durable Limited')
('EPIGRAL', 'Epigral Limited')
('EPL', 'EPL Limited')
('EQUIPPP', 'Equippp Social Impact Technologies Limited')
('EQUITASBNK', 'Equitas Small Finance Bank Limited')
('ERIS', 'Eris Lifesciences Limited')
('EROSMEDIA', 'Eros International Media Limited')
('ESABINDIA', 'Esab India Limited')
('ESAFSFB', 'ESAF Small Finance Bank Limited')
('ESCORTS', 'Escorts Kubota Limited')
('ESSARSHPNG', 'Essar Shipping Limited')
('ESSENTIA', 'Integra Essentia Limited')
('ESTER', 'Ester Industries Limited')
('ETHOSLTD', 'Ethos Limited')
('EUROTEXIND', 'Eurotex Industries and Exports Limited')
('EVEREADY', 'Eveready Industries India Limited')
('EVERESTIND', 'Everest Industries Limited')
('EXCEL', 'Excel Realty N Infra Limited')
('EXCELINDUS', 'Excel Industries Limited')
('EXICOM', 'Exicom Tele-Systems Limited')
('EXIDEIND', 'Exide Industries Limited')
('EXPLEOSOL', 'Expleo Solutions Limited')
('EXXARO', 'Exxaro Tiles Limited')
('FACT', 'Fertilizers and Chemicals Travancore Limited')
('FAIRCHEMOR', 'Fairchem Organics Limited')
('FAZE3Q', 'Faze Three Limited')
('FCL', 'Fineotex Chemical Limited')
('FCSSOFT', 'FCS Software Solutions Limited')
('FDC', 'FDC Limited')
('FEDERALBNK', 'The Federal Bank  Limited')
('FEDFINA', 'Fedbank Financial Services Limited')
('FEL', 'Future Enterprises Limited')
```

```
('FELDVR', 'Future Enterprises Limited')
('FIBERWEB', 'Fiberweb (India) Limited')
('FIEMIND', 'Fiem Industries Limited')
('FILATEX', 'Filatex India Limited')
('FILATFASH', 'Filatex Fashions Limited')
('FINCABLES', 'Finolex Cables Limited')
('FINEORG', 'Fine Organic Industries Limited')
('FINOPB', 'Fino Payments Bank Limited')
('FINPIPE', 'Finolex Industries Limited')
('FIRSTCRY', 'Brainbees Solutions Limited')
('FIVESTAR', 'Five-Star Business Finance Limited')
('FLAIR', 'Flair Writing Industries Limited')
('FLEXITUFF', 'Flexituff Ventures International Limited')
('FLFL', 'Future Lifestyle Fashions Limited')
('FLUOROCHEM', 'Gujarat Fluorochemicals Limited')
('FMGOETZE', 'Federal-Mogul Goetze (India) Limited.')
('FMNL', 'Future Market Networks Limited')
('FOCUS', 'Focus Lighting and Fixtures Limited')
('FOODSIN', 'Foods & Inns Limited')
('FORCEMOT', 'FORCE MOTORS LTD')
('FORTIS', 'Fortis Healthcare Limited')
('FOSECOIND', 'Foseco India Limited')
('FSL', 'Firstsource Solutions Limited')
('FUSION', 'Fusion Micro Finance Limited')
('GABRIEL', 'Gabriel India Limited')
('GAEL', 'Gujarat Ambuja Exports Limited')
('GAIL', 'GAIL (India) Limited')
('GALAXYSURF', 'Galaxy Surfactants Limited')
('GALLANTT', 'Gallantt Ispat Limited')
('GANDHAR', 'Gandhar Oil Refinery (India) Limited')
('GANDHITUBE', 'Gandhi Special Tubes Limited')
('GANECOS', 'Ganesha Ecosphere Limited')
('GANESHBE', 'Ganesh Benzoplast Limited')
('GANESHHOUC', 'Ganesh Housing Corporation Limited')
('GANGAFORGE', 'Ganga Forging Limited')
('GANGESSECU', 'Ganges Securities Limited')
('GARFIBRES', 'Garware Technical Fibres Limited')
('GATECH', 'GACM Technologies Limited')
('GATECHDVR', 'GACM Technologies Limited')
('GATEWAY', 'Gateway Distriparks Limited')
('GEECEE', 'GeeCee Ventures Limited')
('GEEKAYWIRE', 'Geekay Wires Limited')
```

```
('GENCON', 'Generic Engineering Construction and Projects Limited')
('GENESYS', 'Genesys International Corporation Limited')
('GENSOL', 'Gensol Engineering Limited')
('GENUSPAPER', 'Genus Paper & Boards Limited')
('GENUSPOWER', 'Genus Power Infrastructures Limited')
('GEOJITFSL', 'Geojit Financial Services Limited')
('GEPIL', 'GE Power India Limited')
('GESHIP', 'The Great Eastern Shipping Company Limited')
('GET&D', 'GE T&D India Limited')
('GFLLIMITED', 'GFL Limited')
('GHCL', 'GHCL Limited')
('GHCLTEXTIL', 'GHCL Textiles Limited')
('GICHSGFIN', 'GIC Housing Finance Limited')
('GICRE', 'General Insurance Corporation of India')
('GILLANDERS', 'Gillanders Arbuthnot & Company Limited')
('GILLETTE', 'Gillette India Limited')
('GINNIFILA', 'Ginni Filaments Limited')
('GIPCL', 'Gujarat Industries Power Company Limited')
('GKWLIMITED', 'GKW Limited')
('GLAND', 'Gland Pharma Limited')
('GLAXO', 'GlaxoSmithKline Pharmaceuticals Limited')
('GLENMARK', 'Glenmark Pharmaceuticals Limited')
('GLFL', 'Gujarat Lease Financing Limited')
('GLOBAL', 'Global Education Limited')
('GLOBALVECT', 'Global Vectra Helicorp Limited')
('GLOBE', 'Globe Textiles (India) Limited')
('GLOBUSSPR', 'Globus Spirits Limited')
('GLOSTERLTD', 'Gloster Limited')
('GLS', 'Glenmark Life Sciences Limited')
('GMBREW', 'GM Breweries Limited')
('GMDCLTD', 'Gujarat Mineral Development Corporation Limited')
('GMMPFAUDLR', 'GMM Pfaudler Limited')
('GMRINFRA', 'GMR Airports Infrastructure Limited')
('GMRP&UI', 'GMR Power and Urban Infra Limited')
('GNA', 'GNA Axles Limited')
('GNFC', 'Gujarat Narmada Valley Fertilizers and Chemicals Limited')
('GOACARBON', 'Goa Carbon Limited')
('GOCLCORP', 'GOCL Corporation Limited')
('GOCOLORS', 'Go Fashion (India) Limited')
('GODFRYPHLP', 'Godfrey Phillips India Limited')
('GODHA', 'Godha Cabcon & Insulation Limited')
('GODIGIT', 'Go Digit General Insurance Limited')
```

```
('GODREJAGRO', 'Godrej Agrovet Limited')
('GODREJCP', 'Godrej Consumer Products Limited')
('GODREJIND', 'Godrej Industries Limited')
('GODREJPROP', 'Godrej Properties Limited')
('GOKEX', 'Gokaldas Exports Limited')
('GOKUL', 'Gokul Refoils and Solvent Limited')
('GOKULAGRO', 'Gokul Agro Resources Limited')
('GOLDENTOBC', 'Golden Tobacco Limited')
('GOLDIAM', 'Goldiam International Limited')
('GOLDTECH', 'AION-TECH SOLUTIONS LIMITED')
('GOODLUCK', 'Goodluck India Limited')
('GOPAL', 'Gopal Snacks Limited')
('GOYALALUM', 'Goyal Aluminiums Limited')
('GPIL', 'Godawari Power And Ispat limited')
('GPPL', 'Gujarat Pipavav Port Limited')
('GPTHEALTH', 'GPT Healthcare Limited')
('GPTINFRA', 'GPT Infraprojects Limited')
('GRANULES', 'Granules India Limited')
('GRAPHITE', 'Graphite India Limited')
('GRASIM', 'Grasim Industries Limited')
('GRAVITA', 'Gravita India Limited')
('GREAVESCOT', 'Greaves Cotton Limited')
('GREENLAM', 'Greenlam Industries Limited')
('GREENPANEL', 'Greenpanel Industries Limited')
('GREENPLY', 'Greenply Industries Limited')
('GREENPOWER', 'Orient Green Power Company Limited')
('GRINDWELL', 'Grindwell Norton Limited')
('GRINFRA', 'G R Infraprojects Limited')
('GRMOVER', 'GRM Overseas Limited')
('GROBTEA', 'The Grob Tea Company Limited')
('GRPLTD', 'GRP Limited')
('GRSE', 'Garden Reach Shipbuilders & Engineers Limited')
('GRWRHITECH', 'Garware Hi-Tech Films Limited')
('GSFC', 'Gujarat State Fertilizers & Chemicals Limited')
('GSLSU', 'Global Surfaces Limited')
('GSPL', 'Gujarat State Petronet Limited')
('GSS', 'GSS Infotech Limited')
('GTECJAINX', 'G-TEC JAINX EDUCATION LIMITED')
('GTL', 'GTL Limited')
('GTLINFRA', 'GTL Infrastructure Limited')
('GTPL', 'GTPL Hathway Limited')
('GUFICBIO', 'Gufic Biosciences Limited')
```

('GUJALKALI', 'Gujarat Alkalies and Chemicals Limited')
('GUJAPOLLO', 'Gujarat Apollo Industries Limited')
('GUJGASLTD', 'Gujarat Gas Limited')
('GUJRAFFIA', 'Gujarat Raffia Industries Limited')
('GULFOILLUB', 'Gulf Oil Lubricants India Limited')
('GULFPETRO', 'GP Petroleums Limited')
('GULPOLY', 'Gulshan Polyols Limited')
('GVKPIL', 'GVK Power & Infrastructure Limited')
('GVPTECH', 'GVP Infotech Limited')
('HAL', 'Hindustan Aeronautics Limited')
('HAPPSTMNDS', 'Happiest Minds Technologies Limited')
('HAPPYFORGE', 'Happy Forgings Limited')
('HARDWYN', 'Hardwyn India Limited')
('HARIOMPIPE', 'Hariom Pipe Industries Limited')
('HARRMALAYA', 'Harrisons Malayalam Limited')
('HARSHA', 'Harsha Engineers International Limited')
('HATHWAY', 'Hathway Cable & Datacom Limited')
('HATSUN', 'Hatsun Agro Product Limited')
('HAVELLS', 'Havells India Limited')
('HAVISHA', 'Sri Havisha Hospitality and Infrastructure Limited')
('HBLPOWER', 'HBL Power Systems Limited')
('HBSL', 'HB Stockholdings Limited')
('HCC', 'Hindustan Construction Company Limited')
('HCG', 'Healthcare Global Enterprises Limited')
('HCL-INSYS', 'HCL Infosystems Limited')
('HCLTECH', 'HCL Technologies Limited')
('HDFCAMC', 'HDFC Asset Management Company Limited')
('HDFCBANK', 'HDFC Bank Limited')
('HDFCLIFE', 'HDFC Life Insurance Company Limited')
('HDIL', 'Housing Development and Infrastructure Limited')
('HEADSUP', 'Heads UP Ventures Limited')
('HECPROJECT', 'HEC Infra Projects Limited')
('HEG', 'HEG Limited')
('HEIDELBERG', 'HeidelbergCement India Limited')
('HEMIPROP', 'Hemisphere Properties India Limited')
('HERANBA', 'Heranba Industries Limited')
('HERCULES', 'Hercules Hoists Limited')
('HERITGFOOD', 'Heritage Foods Limited')
('HEROMOTOCO', 'Hero MotoCorp Limited')
('HESTERBIO', 'Hester Biosciences Limited')
('HEUBACHIND', 'Heubach Colorants India Limited')
('HEXATRADEX', 'Hexa Tradex Limited')

```
('HFCL', 'HFCL Limited')
('HGINFRA', 'H.G. Infra Engineering Limited')
('HGS', 'Hinduja Global Solutions Limited')
('HIKAL', 'Hikal Limited')
('HIL', 'HIL Limited')
('HILTON', 'Hilton Metal Forging Limited')
('HIMATSEIDE', 'Himatsingka Seide Limited')
('HINDALCO', 'Hindalco Industries Limited')
('HINDCOMPOS', 'Hindustan Composites Limited')
('HINDCON', 'Hindcon Chemicals Limited')
('HINDCOPPER', 'Hindustan Copper Limited')
('HINDMOTORS', 'Hindustan Motors Limited')
('HINDOILEXP', 'Hindustan Oil Exploration Company Limited')
('HINDPETRO', 'Hindustan Petroleum Corporation Limited')
('HINDUNILVR', 'Hindustan Unilever Limited')
('HINDWAREAP', 'Hindware Home Innovation Limited')
('HINDZINC', 'Hindustan Zinc Limited')
('HIRECT', 'Hind Rectifiers Limited')
('HISARMETAL', 'Hisar Metal Industries Limited')
('HITECH', 'Hi-Tech Pipes Limited')
('HITECHCORP', 'Hitech Corporation Limited')
('HITECHGEAR', 'The Hi-Tech Gears Limited')
('HLEGLAS', 'HLE Glascoat Limited')
('HLVLTD', 'HLV LIMITED')
('HMAAGRO', 'HMA Agro Industries Limited')
('HMT', 'HMT Limited')
('HMVL', 'Hindustan Media Ventures Limited')
('HNDFDS', 'Hindustan Foods Limited')
('HOMEFIRST', 'Home First Finance Company India Limited')
('HONASA', 'Honasa Consumer Limited')
('HONAUT', 'Honeywell Automation India Limited')
('HONDAPOWER', 'Honda India Power Products Limited')
('HOVS', 'HOV Services Limited')
('HPAL', 'HP Adhesives Limited')
('HPIL', 'Hindprakash Industries Limited')
('HPL', 'HPL Electric & Power Limited')
('HSCL', 'Himadri Speciality Chemical Limited')
('HTMEDIA', 'HT Media Limited')
('HUBTOWN', 'Hubtown Limited')
('HUDCO', 'Housing & Urban Development Corporation Limited')
('HUHTAMAKI', 'Huhtamaki India Limited')
('HYBRIDFIN', 'Hybrid Financial Services Limited')
```

```
('ICDSLTD', 'ICDS Limited')
('ICEMAKE', 'Ice Make Refrigeration Limited')
('ICICIBANK', 'ICICI Bank Limited')
('ICICIGI', 'ICICI Lombard General Insurance Company Limited')
('ICICIPRULI', 'ICICI Prudential Life Insurance Company Limited')
('ICIL', 'Indo Count Industries Limited')
('ICRA', 'ICRA Limited')
('IDBI', 'IDBI Bank Limited')
('IDEA', 'Vodafone Idea Limited')
('IDEAFORGE', 'Ideaforge Technology Limited')
('IDFC', 'IDFC Limited')
('IDFCFIRSTB', 'IDFC First Bank Limited')
('IEL', 'Indiabulls Enterprises Limited')
('IEX', 'Indian Energy Exchange Limited')
('IFBAGRO', 'IFB Agro Industries Limited')
('IFBIND', 'IFB Industries Limited')
('IFCI', 'IFCI Limited')
('IFGLEXPOR', 'IFGL Refractories Limited')
('IGARASHI', 'Igarashi Motors India Limited')
('IGL', 'Indraprastha Gas Limited')
('IGPL', 'IG Petrochemicals Limited')
('IIFL', 'IIFL Finance Limited')
('IIFLSEC', 'IIFL Securities Limited')
('IITL', 'Industrial Investment Trust Limited')
('IKIO', 'IKIO Lighting Limited')
('IL&FSENGG', 'IL&FS Engineering and Construction Company Limited')
('IL&FSTRANS', 'IL&FS Transportation Networks Limited')
('IMAGICAA', 'Imagicaaworld Entertainment Limited')
('IMFA', 'Indian Metals & Ferro Alloys Limited')
('IMPAL', 'India Motor Parts and Accessories Limited')
('IMPEXFERRO', 'Impex Ferro Tech Limited')
('INCREDIBLE', 'INCREDIBLE INDUSTRIES LIMITED')
('INDBANK', 'Indbank Merchant Banking Services Limited')
('INDGN', 'Indegene Limited')
('INDHOTEL', 'The Indian Hotels Company Limited')
('INDIACEM', 'The India Cements Limited')
('INDIAGLYCO', 'India Glycols Limited')
('INDIAMART', 'Indiamart Intermesh Limited')
('INDIANB', 'Indian Bank')
('INDIANCARD', 'Indian Card Clothing Company Limited')
('INDIANHUME', 'Indian Hume Pipe Company Limited')
('INDIASHLTR', 'India Shelter Finance Corporation Limited')
```

```
('INDIGO', 'InterGlobe Aviation Limited')
('INDIGOPNTS', 'Indigo Paints Limited')
('INDNIPPON', 'India Nippon Electricals Limited')
('INDOAMIN', 'Indo Amines Limited')
('INDOBORAX', 'Indo Borax & Chemicals Limited')
('INDOCO', 'Indoco Remedies Limited')
('INDORAMA', 'Indo Rama Synthetics (India) Limited')
('INDOSTAR', 'IndoStar Capital Finance Limited')
('INDOTECH', 'Indo Tech Transformers Limited')
('INDOTHAI', 'Indo Thai Securities Limited')
('INDOWIND', 'Indowind Energy Limited')
('INDRAMEDCO', 'Indraprastha Medical Corporation Limited')
('INDSWFTLAB', 'Ind-Swift Laboratories Limited')
('INDSWFTLTD', 'Ind-Swift Limited')
('INDTERRAIN', 'Indian Terrain Fashions Limited')
('INDUSINDBK', 'IndusInd Bank Limited')
('INDUSTOWER', 'Indus Towers Limited')
('INFIBEAM', 'Infibeam Avenues Limited')
('INFOBEAN', 'InfoBeans Technologies Limited')
('INFOMEDIA', 'Infomedia Press Limited')
('INFY', 'Infosys Limited')
('INGERRAND', 'Ingersoll Rand (India) Limited')
('INNOVACAP', 'Innova Captab Limited')
('INOXGREEN', 'Inox Green Energy Services Limited')
('INOXINDIA', 'INOX India Limited')
('INOXWIND', 'Inox Wind Limited')
('INSECTICID', 'Insecticides (India) Limited')
('INSPIRISYS', 'Inspirisys Solutions Limited')
('INTELLECT', 'Intellect Design Arena Limited')
('INTENTECH', 'Intense Technologies Limited')
('INTLCONV', 'International Conveyors Limited')
('INVENTURE', 'Inventure Growth & Securities Limited')
('IOB', 'Indian Overseas Bank')
('IOC', 'Indian Oil Corporation Limited')
('IOLCP', 'IOL Chemicals and Pharmaceuticals Limited')
('IONEXCHANG', 'ION Exchange (India) Limited')
('IPCALAB', 'IPCA Laboratories Limited')
('IPL', 'India Pesticides Limited')
('IRB', 'IRB Infrastructure Developers Limited')
('IRCON', 'Ircon International Limited')
('IRCTC', 'Indian Railway Catering And Tourism Corporation Limited')
('IREDA', 'Indian Renewable Energy Development Agency Limited')
```

```
('IRFC', 'Indian Railway Finance Corporation Limited')
('IRIS', 'Iris Business Services Limited')
('IRISDOREME', 'Iris Clothings Limited')
('IRMENERGY', 'IRM Energy Limited')
('ISEC', 'ICICI Securities Limited')
('ISFT', 'Intrasoft Technologies Limited')
('ISGEC', 'Isgec Heavy Engineering Limited')
('ITC', 'ITC Limited')
('ITDC', 'India Tourism Development Corporation Limited')
('ITDCEM', 'ITD Cementation India Limited')
('ITI', 'ITI Limited')
('IVC', 'IL&FS Investment Managers Limited')
('IVP', 'IVP Limited')
('IWEL', 'Inox Wind Energy Limited')
('IXIGO', 'Le Travenues Technology Limited')
('IZMO', 'IZMO Limited')
('J&KBANK', 'The Jammu & Kashmir Bank Limited')
('JAGRAN', 'Jagran Prakashan Limited')
('JAGSNPHARM', 'Jagsonpal Pharmaceuticals Limited')
('JAIBALAJI', 'Jai Balaji Industries Limited')
('JAICORPLTD', 'Jai Corp Limited')
('JAIPURKURT', 'Nandani Creation Limited')
('JAMNAAUTO', 'Jamna Auto Industries Limited')
('JASH', 'Jash Engineering Limited')
('JAYAGROGN', 'Jayant Agro Organics Limited')
('JAYBARMARU', 'Jay Bharat Maruti Limited')
('JAYNECOIND', 'Jayaswal Neco Industries Limited')
('JAYSREETEA', 'Jayshree Tea & Industries Limited')
('JBCHEPHARM', 'JB Chemicals & Pharmaceuticals Limited')
('JBMA', 'JBM Auto Limited')
('JCHAC', 'Johnson Controls - Hitachi Air Conditioning India Limited')
('JETAIRWAYS', 'Jet Airways (India) Limited')
('JETFREIGHT', 'Jet Freight Logistics Limited')
('JGCHEM', 'J.G.Chemicals Limited')
('JHS', 'JHS Svendgaard Laboratories Limited')
('JINDALPHOT', 'Jindal Photo Limited')
('JINDALPOLY', 'Jindal Poly Films Limited')
('JINDALSAW', 'Jindal Saw Limited')
('JINDALSTEL', 'Jindal Steel & Power Limited')
('JINDRILL', 'Jindal Drilling And Industries Limited')
('JINDWORLD', 'Jindal Worldwide Limited')
('JIOFIN', 'Jio Financial Services Limited')
```

```
('JISLDVREQS', 'Jain Irrigation Systems Limited')
('JISLJALEQS', 'Jain Irrigation Systems Limited')
('JITFINFRA', 'JITF Infralogistics Limited')
('JKCEMENT', 'JK Cement Limited')
('JKIL', 'J.Kumar Infraprojects Limited')
('JKLAKSHMI', 'JK Lakshmi Cement Limited')
('JKPAPER', 'JK Paper Limited')
('JKTYRE', 'JK Tyre & Industries Limited')
('JLHL', 'Jupiter Life Line Hospitals Limited')
('JMA', 'Jullundur Motor Agency (Delhi) Limited')
('JMFINANCIL', 'JM Financial Limited')
('JNKINDIA', 'JNK India Limited')
('JOCIL', 'Jocil Limited')
('JPOLYINVST', 'Jindal Poly Investment and Finance Company Limited')
('JPPOWER', 'Jaiprakash Power Ventures Limited')
('JSFB', 'Jana Small Finance Bank Limited')
('JSL', 'Jindal Stainless Limited')
('JSWENERGY', 'JSW Energy Limited')
('JSWHL', 'JSW Holdings Limited')
('JSWINFRA', 'JSW Infrastructure Limited')
('JSWSTEEL', 'JSW Steel Limited')
('JTEKTINDIA', 'Jtekt India Limited')
('JTLIND', 'JTL INDUSTRIES LIMITED')
('JUBLFOOD', 'Jubilant Foodworks Limited')
('JUBLINDS', 'Jubilant Industries Limited')
('JUBLINGREA', 'Jubilant Ingrevia Limited')
('JUBLPHARMA', 'Jubilant Pharmova Limited')
('JUNIPER', 'Juniper Hotels Limited')
('JUSTDIAL', 'Just Dial Limited')
('JWL', 'Jupiter Wagons Limited')
('JYOTHYLAB', 'Jyothy Labs Limited')
('JYOTICNC', 'Jyoti CNC Automation Limited')
('JYOTISTRUC', 'Jyoti Structures Limited')
('KABRAEXTRU', 'Kabra Extrusion Technik Limited')
('KAJARIACER', 'Kajaria Ceramics Limited')
('KAKATCEM', 'Kakatiya Cement Sugar & Industries Limited')
('KALAMANDIR', 'Sai Silks (Kalamandir) Limited')
('KALYANI', 'Kalyani Commercials Limited')
('KALYANIFRG', 'Kalyani Forge Limited')
('KALYANKJIL', 'Kalyan Jewellers India Limited')
('KAMATHOTEL', 'Kamat Hotels (I) Limited')
('KAMDHENU', 'Kamdhenu Limited')
```

```
('KAMOPAINTS', 'Kamdhenu Ventures Limited')
('KANANIIND', 'Kanani Industries Limited')
('KANORICHEM', 'Kanoria Chemicals & Industries Limited')
('KANPRPLA', 'Kanpur Plastipack Limited')
('KANSAINER', 'Kansai Nerolac Paints Limited')
('KAPSTON', 'Kapston Services Limited')
('KARMAENG', 'Karma Energy Limited')
('KARURVYSYA', 'Karur Vysya Bank Limited')
('KAUSHALYA', 'Kaushalya Infrastructure Development Corporation Limited')
('KAVVERITEL', 'Kavveri Telecom Products Limited')
('KAYA', 'Kaya Limited')
('KAYNES', 'Kaynes Technology India Limited')
('KBCGLOBAL', 'KBC Global Limited')
('KCP', 'KCP Limited')
('KCPSUGIND', 'KCP Sugar and Industries Corporation Limited')
('KDDL', 'KDDL Limited')
('KEC', 'KEC International Limited')
('KECL', 'Kirloskar Electric Company Limited')
('KEEPLEARN', 'DSJ Keep Learning Limited')
('KEI', 'KEI Industries Limited')
('KELLTONTEC', 'Kellton Tech Solutions Limited')
('KERNEX', 'Kernex Microsystems (India) Limited')
('KESORAMIND', 'Kesoram Industries Limited')
('KEYFINSERV', 'Keynote Financial Services Limited')
('KFINTECH', 'Kfin Technologies Limited')
('KHADIM', 'Khadim India Limited')
('KHAICHEM', 'Khaitan Chemicals & Fertilizers Limited')
('KHAITANLTD', 'Khaitan (India) Limited')
('KHANDSE', 'Khandwala Securities Limited')
('KICL', 'Kalyani Investment Company Limited')
('KILITCH', 'Kilitch Drugs (India) Limited')
('KIMS', 'Krishna Institute of Medical Sciences Limited')
('KINGFA', 'Kingfa Science & Technology (India) Limited')
('KIOCL', 'KIOCL Limited')
('KIRIINDUS', 'Kiri Industries Limited')
('KIRLOSBROS', 'Kirloskar Brothers Limited')
('KIRLOSENG', 'Kirloskar Oil Engines Limited')
('KIRLOSIND', 'Kirloskar Industries Limited')
('KIRLPNU', 'Kirloskar Pneumatic Company Limited')
('KITEX', 'Kitex Garments Limited')
('KKCL', 'Kewal Kiran Clothing Limited')
('KMSUGAR', 'K.M.Sugar Mills Limited')
```

```
('KNRCON', 'KNR Constructions Limited')
('KOHINOOR', 'Kohinoor Foods Limited')
('KOKUYOCMLN', 'Kokuyo Camlin Limited')
('KOLTEPATIL', 'Kolte - Patil Developers Limited')
('KOPRAN', 'Kopran Limited')
('KOTAKBANK', 'Kotak Mahindra Bank Limited')
('KOTARISUG', 'Kothari Sugars And Chemicals Limited')
('KOTHARIPET', 'Kothari Petrochemicals Limited')
('KOTHARIPRO', 'Kothari Products Limited')
('KPIGREEN', 'KPI Green Energy Limited')
('KPIL', 'Kalpataru Projects International Limited')
('KPITTECH', 'KPIT Technologies Limited')
('KPRMILL', 'K.P.R. Mill Limited')
('KRBL', 'KRBL Limited')
('KREBSBIO', 'Krebs Biochemicals and Industries Limited')
('KRIDHANINF', 'Kridhan Infra Limited')
('KRISHANA', 'Krishana Phoschem Limited')
('KRITI', 'Kriti Industries (India) Limited')
('KRITIKA', 'Kritika Wires Limited')
('KRITINUT', 'Kriti Nutrients Limited')
('KRONOX', 'Kronox Lab Sciences Limited')
('KRSNAA', 'Krsnaa Diagnostics Limited')
('KRYSTAL', 'Krystal Integrated Services Limited')
('KSB', 'Ksb Limited')
('KSCL', 'Kaveri Seed Company Limited')
('KSHITIJPOL', 'Kshitij Polyline Limited')
('KSL', 'Kalyani Steels Limited')
('KSOLVES', 'Ksolves India Limited')
('KTKBANK', 'The Karnataka Bank Limited')
('KUANTUM', 'Kuantum Papers Limited')
('LAGNAM', 'Lagnam Spintex Limited')
('LAL', 'Lorenzini Apparels Limited')
('LALPATHLAB', 'Dr. Lal Path Labs Ltd.')
('LAMBODHARA', 'Lambodhara Textiles Limited')
('LANCORHOL', 'Lancor Holdings Limited')
('LANDMARK', 'Landmark Cars Limited')
('LAOPALA', 'La Opala RG Limited')
('LASA', 'Lasa Supergenerics Limited')
('LATENTVIEW', 'Latent View Analytics Limited')
('LATTEYS', 'Latteys Industries Limited')
('LAURUSLABS', 'Laurus Labs Limited')
('LAXMICOT', 'Laxmi Cotspin Limited')
```

```
('LAXMIMACH', 'Lakshmi Machine Works Limited')
('LCCINFOTEC', 'LCC Infotech Limited')
('LEMONTREE', 'Lemon Tree Hotels Limited')
('LEXUS', 'Lexus Granito (India) Limited')
('LFIC', 'Lakshmi Finance & Industrial Corporation Limited')
('LGBBROSLTD', 'LG Balakrishnan & Bros Limited')
('LGHL', 'Laxmi Goldorna House Limited')
('LIBAS', 'Libas Consumer Products Limited')
('LIBERTSHOE', 'Liberty Shoes Limited')
('LICHSGFIN', 'LIC Housing Finance Limited')
('LICI', 'Life Insurance Corporation Of India')
('LIKHITHA', 'Likhitha Infrastructure Limited')
('LINC', 'Linc Limited')
('LINCOLN', 'Lincoln Pharmaceuticals Limited')
('LINDEINDIA', 'Linde India Limited')
('LLOYDSENGG', 'LLOYDS ENGINEERING WORKS LIMITED')
('LLOYDSME', 'Lloyds Metals And Energy Limited')
('LODHA', 'Macrotech Developers Limited')
('LOKESHMACH', 'Lokesh Machines Limited')
('LORDSCHLO', 'Lords Chloro Alkali Limited')
('LOTUSEYE', 'Lotus Eye Hospital and Institute Limited')
('LOVABLE', 'Lovable Lingerie Limited')
('LOYALTEX', 'Loyal Textile Mills Limited')
('LPDC', 'Landmark Property Development Company Limited')
('LT', 'Larsen & Toubro Limited')
('LTF', 'L&T Finance Limited')
('LTFOODS', 'LT Foods Limited')
('LTIM', 'LTIMindtree Limited')
('LTTS', 'L&T Technology Services Limited')
('LUMAXIND', 'Lumax Industries Limited')
('LUMAXTECH', 'Lumax Auto Technologies Limited')
('LUPIN', 'Lupin Limited')
('LUXIND', 'Lux Industries Limited')
('LXCHEM', 'Laxmi Organic Industries Limited')
('LYKALABS', 'Lyka Labs Limited')
('LYPSAGEMS', 'Lypsa Gems & Jewellery Limited')
('M&M', 'Mahindra & Mahindra Limited')
('M&MFIN', 'Mahindra & Mahindra Financial Services Limited')
('MAANALU', 'Maan Aluminium Limited')
('MACPOWER', 'Macpower CNC Machines Limited')
('MADHAV', 'Madhav Marbles and Granites Limited')
('MADHUCON', 'Madhucon Projects Limited')
```

```
('MADRASFERT', 'Madras Fertilizers Limited')
('MAGADSUGAR', 'Magadh Sugar & Energy Limited')
('MAGNUM', 'Magnum Ventures Limited')
('MAHABANK', 'Bank of Maharashtra')
('MAHAPEXLTD', 'Maha Rashtra Apex Corporation Limited')
('MAHASTEEL', 'Mahamaya Steel Industries Limited')
('MAHEPC', 'Mahindra EPC Irrigation Limited')
('MAHESHWARI', 'Maheshwari Logistics Limited')
('MAHLIFE', 'Mahindra Lifespace Developers Limited')
('MAHLOG', 'Mahindra Logistics Limited')
('MAHSCOOTER', 'Maharashtra Scooters Limited')
('MAHSEAMLES', 'Maharashtra Seamless Limited')
('MAITHANALL', 'Maithan Alloys Limited')
('MALLCOM', 'Mallcom (India) Limited')
('MALUPAPER', 'Malu Paper Mills Limited')
('MANAKALUCO', 'Manaksia Aluminium Company Limited')
('MANAKCOAT', 'Manaksia Coated Metals & Industries Limited')
('MANAKSIA', 'Manaksia Limited')
('MANAKSTEEL', 'Manaksia Steels Limited')
('MANALIPETC', 'Manali Petrochemicals Limited')
('MANAPPURAM', 'Manappuram Finance Limited')
('MANCREDIT', 'Mangal Credit and Fincorp Limited')
('MANGALAM', 'Mangalam Drugs And Organics Limited')
('MANGCHEFER', 'Mangalore Chemicals & Fertilizers Limited')
('MANGLMCEM', 'Mangalam Cement Limited')
('MANINDS', 'Man Industries (India) Limited')
('MANINFRA', 'Man Infraconstruction Limited')
('MANKIND', 'Mankind Pharma Limited')
('MANOMAY', 'Manomay Tex India Limited')
('MANORAMA', 'Manorama Industries Limited')
('MANORG', 'Mangalam Organics Limited')
('MANUGRAPH', 'Manugraph India Limited')
('MANYAVAR', 'Vedant Fashions Limited')
('MAPMYINDIA', 'C.E. Info Systems Limited')
('MARALOVER', 'Maral Overseas Limited')
('MARATHON', 'Marathon Nextgen Realty Limited')
('MARICO', 'Marico Limited')
('MARINE', 'Marine Electricals (India) Limited')
('MARKSANS', 'Marksans Pharma Limited')
('MARSHALL', 'Marshall Machines Limited')
('MARUTI', 'Maruti Suzuki India Limited')
('MASFIN', 'MAS Financial Services Limited')
```

```
('MASKINVEST', 'Mask Investments Limited')
('MASTEK', 'Mastek Limited')
('MATRIMONY', 'Matrimony.Com Limited')
('MAWANASUG', 'Mawana Sugars Limited')
('MAXESTATES', 'Max Estates Limited')
('MAXHEALTH', 'Max Healthcare Institute Limited')
('MAXIND', 'Max India Limited')
('MAYURUNIQ', 'Mayur Uniquoters Ltd')
('MAZDA', 'Mazda Limited')
('MAZDOCK', 'Mazagon Dock Shipbuilders Limited')
('MBAPL', 'Madhya Bharat Agro Products Limited')
('MBECL', 'Mcnally Bharat Engineering Company Limited')
('MBLINFRA', 'MBL Infrastructure Limited')
('MCL', 'Madhav Copper Limited')
('MCLEODRUSS', 'Mcleod Russel India Limited')
('MCX', 'Multi Commodity Exchange of India Limited')
('MEDANTA', 'Global Health Limited')
('MEDIASSIST', 'Medi Assist Healthcare Services Limited')
('MEDICAMEQ', 'Medicamen Biotech Limited')
('MEDICO', 'Medico Remedies Limited')
('MEDPLUS', 'Medplus Health Services Limited')
('MEGASOFT', 'Megasoft Limited')
('MEGASTAR', 'Megastar Foods Limited')
('MENONBE', 'Menon Bearings Limited')
('METROBRAND', 'Metro Brands Limited')
('METROPOLIS', 'Metropolis Healthcare Limited')
('MFSL', 'Max Financial Services Limited')
('MGEL', 'Mangalam Global Enterprise Limited')
('MGL', 'Mahanagar Gas Limited')
('MHLXMIRU', 'Mahalaxmi Rubtech Limited')
('MHRIL', 'Mahindra Holidays & Resorts India Limited')
('MICEL', 'MIC Electronics Limited')
('MIDHANI', 'Mishra Dhatu Nigam Limited')
('MINDACORP', 'Minda Corporation Limited')
('MINDTECK', 'Mindteck (India) Limited')
('MIRCELECTR', 'MIRC Electronics Limited')
('MIRZAINT', 'Mirza International Limited')
('MITCON', 'MITCON Consultancy & Engineering Services Limited')
('MITTAL', 'Mittal Life Style Limited')
('MKPL', 'M K Proteins Limited')
('MMFL', 'MM Forgings Limited')
('MMP', 'MMP Industries Limited')
```

```
('MMTC', 'MMTC Limited')
('MODIRUBBER', 'Modi Rubber Limited')
('MODISONLTD', 'MODISON LIMITED')
('MODTHREAD', 'Modern Threads (India) Limited')
('MOHITIND', 'Mohit Industries Limited')
('MOIL', 'MOIL Limited')
('MOKSH', 'Moksh Ornaments Limited')
('MOL', 'Meghmani Organics Limited')
('MOLDTECH', 'Mold-Tek Technologies Limited')
('MOLDTKPAC', 'Mold-Tek Packaging Limited')
('MONARCH', 'Monarch Networth Capital Limited')
('MONTECARLO', 'Monte Carlo Fashions Limited')
('MORARJEE', 'Morarjee Textiles Limited')
('MOREPENLAB', 'Morepen Laboratories Limited')
('MOTHERSON', 'Samvardhana Motherson International Limited')
('MOTILALOFS', 'Motilal Oswal Financial Services Limited')
('MOTISONS', 'Motisons Jewellers Limited')
('MOTOGENFIN', 'The Motor & General Finance Limited')
('MPHASIS', 'MphasiS Limited')
('MPSLTD', 'MPS Limited')
('MRF', 'MRF Limited')
('MRO-TEK', 'MRO-TEK Realty Limited')
('MRPL', 'Mangalore Refinery and Petrochemicals Limited')
('MSPL', 'MSP Steel & Power Limited')
('MSTCLTD', 'Mstc Limited')
('MSUMI', 'Motherson Sumi Wiring India Limited')
('MTARTECH', 'Mtar Technologies Limited')
('MTEDUCARE', 'MT Educare Limited')
('MTNL', 'Mahanagar Telephone Nigam Limited')
('MUFIN', 'Mufin Green Finance Limited')
('MUFTI', 'Credo Brands Marketing Limited')
('MUKANDLTD', 'Mukand Limited')
('MUKKA', 'Mukka Proteins Limited')
('MUKTAARTS', 'Mukta Arts Limited')
('MUNJALAU', 'Munjal Auto Industries Limited')
('MUNJALSHOW', 'Munjal Showa Limited')
('MURUDCERA', 'Murudeshwar Ceramics Limited')
('MUTHOOTCAP', 'Muthoot Capital Services Limited')
('MUTHOOTFIN', 'Muthoot Finance Limited')
('MUTHOOTMF', 'Muthoot Microfin Limited')
('MVGJL', 'Manoj Vaibhav Gems N Jewellers Limited')
('NACLIND', 'NACL Industries Limited')
```

```
('NAGAFERT', 'Nagarjuna Fertilizers and Chemicals Limited')
('NAGREEKCAP', 'Nagreeka Capital & Infrastructure Limited')
('NAGREEKEXP', 'Nagreeka Exports Limited')
('NAHARCAP', 'Nahar Capital and Financial Services Limited')
('NAHARINDUS', 'Nahar Industrial Enterprises Limited')
('NAHARPOLY', 'Nahar Poly Films Limited')
('NAHARSPING', 'Nahar Spinning Mills Limited')
('NAM-INDIA', 'Nippon Life India Asset Management Limited')
('NARMADA', 'Narmada Agrobase Limited')
('NATCOPHARM', 'Natco Pharma Limited')
('NATHBIOGEN', 'Nath Bio-Genes (India) Limited')
('NATIONALUM', 'National Aluminium Company Limited')
('NAUKRI', 'Info Edge (India) Limited')
('NAVA', 'NAVA LIMITED')
('NAVINFLUOR', 'Navin Fluorine International Limited')
('NAVKARCORP', 'Navkar Corporation Limited')
('NAVNETEDUL', 'Navneet Education Limited')
('NAZARA', 'Nazara Technologies Limited')
('NBCC', 'NBCC (India) Limited')
('NBIFIN', 'N. B. I. Industrial Finance Company Limited')
('NCC', 'NCC Limited')
('NCLIND', 'NCL Industries Limited')
('NDGL', 'Naga Dhunseri Group Limited')
('NDL', 'Nandan Denim Limited')
('NDLVENTURE', 'NDL Ventures Limited')
('NDRAUTO', 'Ndr Auto Components Limited')
('NDTV', 'New Delhi Television Limited')
('NECCLTD', 'North Eastern Carrying Corporation Limited')
('NECLIFE', 'Nectar Lifesciences Limited')
('NELCAST', 'Nelcast Limited')
('NELCO', 'NELCO Limited')
('NEOGEN', 'Neogen Chemicals Limited')
('NESCO', 'Nesco Limited')
('NESTLEIND', 'Nestle India Limited')
('NETWEB', 'Netweb Technologies India Limited')
('NETWORK18', 'Network18 Media & Investments Limited')
('NEULANDLAB', 'Neuland Laboratories Limited')
('NEWGEN', 'Newgen Software Technologies Limited')
('NEXTMEDIA', 'Next Mediaworks Limited')
('NFL', 'National Fertilizers Limited')
('NGIL', 'Nakoda Group of Industries Limited')
('NGLFINE', 'NGL Fine-Chem Limited')
```

```
('NH', 'Narayana Hrudayalaya Ltd.')
('NHPC', 'NHPC Limited')
('NIACL', 'The New India Assurance Company Limited')
('NIBL', 'NRB Industrial Bearings Limited')
('NIITLTD', 'NIIT Limited')
('NIITMTS', 'NIIT Learning Systems Limited')
('NILAINFRA', 'Nila Infrastructures Limited')
('NILASPACES', 'Nila Spaces Limited')
('NILKAMAL', 'Nilkamal Limited')
('NINSYS', 'NINtec Systems Limited')
('NIPPOBATRY', 'Indo-National Limited')
('NIRAJ', 'Niraj Cement Structurals Limited')
('NIRAJISPAT', 'Niraj Ispat Industries Limited')
('NITCO', 'Nitco Limited')
('NITINSPIN', 'Nitin Spinners Limited')
('NITIRAJ', 'Nitiraj Engineers Limited')
('NKIND', 'NK Industries Limited')
('NLCINDIA', 'NLC India Limited')
('NMDC', 'NMDC Limited')
('NOCIL', 'NOCIL Limited')
('NOIDATOLL', 'Noida Toll Bridge Company Limited')
('NORBTEAEXP', 'Norben Tea & Exports Limited')
('NOVAAGRI', 'Nova Agritech Limited')
('NRAIL', 'N R Agarwal Industries Limited')
('NRBBEARING', 'NRB Bearing Limited')
('NRL', 'Nupur Recyclers Limited')
('NSIL', 'Nalwa Sons Investments Limited')
('NSLNISP', 'NMDC Steel Limited')
('NTPC', 'NTPC Limited')
('NUCLEUS', 'Nucleus Software Exports Limited')
('NURECA', 'Nureca Limited')
('NUVAMA', 'Nuvama Wealth Management Limited')
('NUVOCO', 'Nuvoco Vistas Corporation Limited')
('NYKAA', 'FSN E-Commerce Ventures Limited')
('OAL', 'Oriental Aromatics Limited')
('OBCL', 'Orissa Bengal Carrier Limited')
('OBEROIRLTY', 'Oberoi Realty Limited')
('OCCL', 'Oriental Carbon & Chemicals Limited')
('OFSS', 'Oracle Financial Services Software Limited')
('OIL', 'Oil India Limited')
('OILCOUNTUB', 'Oil Country Tubular Limited')
('OLAELEC', 'Ola Electric Mobility Limited')
```

```
('OLECTRA', 'Olectra Greentech Limited')
('OMAXAUTO', 'Omax Autos Limited')
('OMAXE', 'Omaxe Limited')
('OMINFRAL', 'OM INFRA LIMITED')
('ONELIFECAP', 'Onelife Capital Advisors Limited')
('ONEPOINT', 'One Point One Solutions Limited')
('ONGC', 'Oil & Natural Gas Corporation Limited')
('ONMOBILE', 'OnMobile Global Limited')
('ONWARDTEC', 'Onward Technologies Limited')
('OPTIEMUS', 'Optiemus Infracom Limited')
('ORBTEXP', 'Orbit Exports Limited')
('ORCHPHARMA', 'Orchid Pharma Limited')
('ORICONENT', 'Oricon Enterprises Limited')
('ORIENTALTL', 'Oriental Trimex Limited')
('ORIENTBELL', 'Orient Bell Limited')
('ORIENTCEM', 'Orient Cement Limited')
('ORIENTCER', 'ORIENT CERATECH LIMITED')
('ORIENTELEC', 'Orient Electric Limited')
('ORIENTHOT', 'Oriental Hotels Limited')
('ORIENTLTD', 'Orient Press Limited')
('ORIENTPPR', 'Orient Paper & Industries Limited')
('ORISSAMINE', 'The Orissa Minerals Development Company Limited')
('ORTEL', 'Ortel Communications Limited')
('ORTINLAB', 'Ortin Laboratories Limited')
('OSIAHYPER', 'Osia Hyper Retail Limited')
('OSWALAGRO', 'Oswal Agro Mills Limited')
('OSWALGREEN', 'Oswal Greentech Limited')
('OSWALSEEDS', 'ShreeOswal Seeds And Chemicals Limited')
('PAGEIND', 'Page Industries Limited')
('PAISALO', 'Paisalo Digital Limited')
('PAKKA', 'PAKKA LIMITED')
('PALASHSECU', 'Palash Securities Limited')
('PALREDTEC', 'Palred Technologies Limited')
('PANACEABIO', 'Panacea Biotec Limited')
('PANACHE', 'Panache Digilife Limited')
('PANAMAPET', 'Panama Petrochem Limited')
('PANSARI', 'Pansari Developers Limited')
('PAR', 'Par Drugs And Chemicals Limited')
('PARACABLES', 'Paramount Communications Limited')
('PARADEEP', 'Paradeep Phosphates Limited')
('PARAGMILK', 'Parag Milk Foods Limited')
('PARAS', 'Paras Defence and Space Technologies Limited')
```

```
('PARASPETRO', 'Paras Petrofils Limited')
('PARKHOTELS', 'Apeejay Surrendra Park Hotels Limited')
('PARSVNATH', 'Parsvnath Developers Limited')
('PASUPTAC', 'Pasupati Acrylon Limited')
('PATANJALI', 'Patanjali Foods Limited')
('PATELENG', 'Patel Engineering Limited')
('PATINTLOG', 'Patel Integrated Logistics Limited')
('PAVNAIND', 'Pavna Industries Limited')
('PAYTM', 'One 97 Communications Limited')
('PCBL', 'PCBL LIMITED')
('PCJEWELLER', 'PC Jeweller Limited')
('PDMJEPAPER', 'Pudumjee Paper Products Limited')
('PDSL', 'PDS Limited')
('PEARLPOLY', 'Pearl Polymers Limited')
('PEL', 'Piramal Enterprises Limited')
('PENIND', 'Pennar Industries Limited')
('PENINLAND', 'Peninsula Land Limited')
('PERSISTENT', 'Persistent Systems Limited')
('PETRONET', 'Petronet LNG Limited')
('PFC', 'Power Finance Corporation Limited')
('PFIZER', 'Pfizer Limited')
('PFOCUS', 'Prime Focus Limited')
('PFS', 'PTC India Financial Services Limited')
('PGEL', 'PG Electroplast Limited')
('PGHH', 'Procter & Gamble Hygiene and Health Care Limited')
('PGHL', 'Procter & Gamble Health Limited')
('PGIL', 'Pearl Global Industries Limited')
('PHOENIXLTD', 'The Phoenix Mills Limited')
('PIDILITIND', 'Pidilite Industries Limited')
('PIGL', 'Power & Instrumentation (Gujarat) Limited')
('PIIND', 'PI Industries Limited')
('PILANIINVS', 'Pilani Investment and Industries Corporation Limited')
('PILITA', 'PIL ITALICA LIFESTYLE LIMITED')
('PIONEEREMB', 'Pioneer Embroideries Limited')
('PITTIENG', 'Pitti Engineering Limited')
('PIXTRANS', 'Pix Transmissions Limited')
('PKTEA', 'The Peria Karamalai Tea & Produce Company Limited')
('PLASTIBLEN', 'Plastiblends India Limited')
('PLATIND', 'Platinum Industries Limited')
('PLAZACABLE', 'Plaza Wires Limited')
('PNB', 'Punjab National Bank')
('PNBGILTS', 'PNB Gilts Limited')
```

```
('PNBHOUSING', 'PNB Housing Finance Limited')
('PNC', 'Pritish Nandy Communications Limited')
('PNCINFRA', 'PNC Infratech Limited')
('POCL', 'Pondy Oxides & Chemicals Limited')
('PODDARHOUS', 'Poddar Housing and Development Limited')
('PODDARMENT', 'Poddar Pigments Limited')
('POKARNA', 'Pokarna Limited')
('POLICYBZR', 'PB Fintech Limited')
('POLYCAB', 'Polycab India Limited')
('POLYMED', 'Poly Medicure Limited')
('POLYPLEX', 'Polyplex Corporation Limited')
('PONNIERODE', 'Ponni Sugars (Erode) Limited')
('POONAWALLA', 'Poonawalla Fincorp Limited')
('POWERGRID', 'Power Grid Corporation of India Limited')
('POWERINDIA', 'Hitachi Energy India Limited')
('POWERMECH', 'Power Mech Projects Limited')
('PPAP', 'PPAP Automotive Limited')
('PPL', 'Prakash Pipes Limited')
('PPLPHARMA', 'Piramal Pharma Limited')
('PRAENG', 'Prajay Engineers Syndicate Limited')
('PRAJIND', 'Praj Industries Limited')
('PRAKASH', 'Prakash Industries Limited')
('PRAKASHSTL', 'Prakash Steelage Limited')
('PRAXIS', 'Praxis Home Retail Limited')
('PRECAM', 'Precision Camshafts Limited')
('PRECOT', 'Precot Limited')
('PRECWIRE', 'Precision Wires India Limited')
('PREMEXPLN', 'Premier Explosives Limited')
('PREMIERPOL', 'Premier Polyfilm Limited')
('PRESTIGE', 'Prestige Estates Projects Limited')
('PRICOLLTD', 'Pricol Limited')
('PRIMESECU', 'Prime Securities Limited')
('PRINCEPIPE', 'Prince Pipes And Fittings Limited')
('PRITI', 'Priti International Limited')
('PRITIKAUTO', 'Pritika Auto Industries Limited')
('PRIVISCL', 'Privi Speciality Chemicals Limited')
('PROZONER', 'Prozone Realty Limited')
('PRSMJOHNSN', 'Prism Johnson Limited')
('PRUDENT', 'Prudent Corporate Advisory Services Limited')
('PRUDMOULI', 'Prudential Sugar Corporation Limited')
('PSB', 'Punjab & Sind Bank')
('PSPPROJECT', 'PSP Projects Limited')
```

```
('PTC', 'PTC India Limited')
('PTCIL', 'PTC Industries Limited')
('PTL', 'PTL Enterprises Limited')
('PUNJABCHEM', 'Punjab Chemicals & Crop Protection Limited')
('PURVA', 'Puravankara Limited')
('PVP', 'PVP Ventures Limited')
('PVRINOX', 'PVR INOX Limited')
('PVSL', 'Popular Vehicles and Services Limited')
('PYRAMID', 'Pyramid Technoplast Limited')
('QUESS', 'Quess Corp Limited')
('QUICKHEAL', 'Quick Heal Technologies Limited')
('RACE', 'Race Eco Chain Limited')
('RADHIKAJWE', 'Radhika Jeweltech Limited')
('RADIANTCMS', 'Radiant Cash Management Services Limited')
('RADICO', 'Radico Khaitan Limited')
('RADIOCITY', 'Music Broadcast Limited')
('RAILTEL', 'Railtel Corporation Of India Limited')
('RAIN', 'Rain Industries Limited')
('RAINBOW', 'Rainbow Childrens Medicare Limited')
('RAJESHEXPO', 'Rajesh Exports Limited')
('RAJMET', 'Rajnandini Metal Limited')
('RAJRATAN', 'Rajratan Global Wire Limited')
('RAJRILTD', 'Raj Rayon Industries Limited')
('RAJSREESUG', 'Rajshree Sugars & Chemicals Limited')
('RAJTV', 'Raj Television Network Limited')
('RALLIS', 'Rallis India Limited')
('RAMANEWS', 'Shree Rama Newsprint Limited')
('RAMAPHO', 'Rama Phosphates Limited')
('RAMASTEEL', 'Rama Steel Tubes Limited')
('RAMCOCEM', 'The Ramco Cements Limited')
('RAMCOIND', 'Ramco Industries Limited')
('RAMCOSYS', 'Ramco Systems Limited')
('RAMKY', 'Ramky Infrastructure Limited')
('RAMRAT', 'Ram Ratna Wires Limited')
('RANASUG', 'Rana Sugars Limited')
('RANEENGINE', 'Rane Engine Valve Limited')
('RANEHOLDIN', 'Rane Holdings Limited')
('RATEGAIN', 'Rategain Travel Technologies Limited')
('RATNAMANI', 'Ratnamani Metals & Tubes Limited')
('RATNAVEER', 'Ratnaveer Precision Engineering Limited')
('RAYMOND', 'Raymond Limited')
('RBA', 'Restaurant Brands Asia Limited')
```

```
('RBL', 'Rane Brake Lining Limited')
('RBLBANK', 'RBL Bank Limited')
('RBZJEWEL', 'RBZ Jewellers Limited')
('RCF', 'Rashtriya Chemicals and Fertilizers Limited')
('RECLTD', 'REC Limited')
('REDINGTON', 'Redington Limited')
('REDTAPE', 'Redtape Limited')
('REFEX', 'Refex Industries Limited')
('REGENCERAM', 'Regency Ceramics Limited')
('RELAXO', 'Relaxo Footwears Limited')
('RELCHEMQ', 'Reliance Chemotex Industries Limited')
('RELIABLE', 'Reliable Data Services Limited')
('RELIANCE', 'Reliance Industries Limited')
('RELIGARE', 'Religare Enterprises Limited')
('RELINFRA', 'Reliance Infrastructure Limited')
('RELTD', 'Ravindra Energy Limited')
('REMSONSIND', 'Remsons Industries Limited')
('RENUKA', 'Shree Renuka Sugars Limited')
('REPCOHOME', 'Repco Home Finance Limited')
('REPL', 'Rudrabhishek Enterprises Limited')
('REPRO', 'Repro India Limited')
('RESPONIND', 'Responsive Industries Limited')
('RETAIL', 'JHS Svendgaard Retail Ventures Limited')
('RGL', 'Renaissance Global Limited')
('RHFL', 'Reliance Home Finance Limited')
('RHIM', 'RHI MAGNESITA INDIA LIMITED')
('RHL', 'Robust Hotels Limited')
('RICOAUTO', 'Rico Auto Industries Limited')
('RIIL', 'Reliance Industrial Infrastructure Limited')
('RISHABH', 'Rishabh Instruments Limited')
('RITCO', 'Ritco Logistics Limited')
('RITES', 'RITES Limited')
('RKDL', 'Ravi Kumar Distilleries Limited')
('RKEC', 'RKEC Projects Limited')
('RKFORGE', 'Ramkrishna Forgings Limited')
('RKSWAMY', 'R K Swamy Limited')
('RML', 'Rane (Madras) Limited')
('ROHLTD', 'Royal Orchid Hotels Limited')
('ROLEXRINGS', 'Rolex Rings Limited')
('ROLLT', 'Rollatainers Limited')
('ROLTA', 'Rolta India Limited')
('ROML', 'Raj Oil Mills Limited')
```

```
('ROSSARI', 'Rossari Biotech Limited')
('ROSSELLIND', 'Rossell India Limited')
('ROTO', 'Roto Pumps Limited')
('ROUTE', 'ROUTE MOBILE LIMITED')
('RPEL', 'Raghav Productivity Enhancers Limited')
('RPGLIFE', 'RPG Life Sciences Limited')
('RPOWER', 'Reliance Power Limited')
('RPPINFRA', 'R.P.P. Infra Projects Limited')
('RPPL', 'Rajshree Polypack Limited')
('RPSGVENT', 'RPSG VENTURES LIMITED')
('RPTECH', 'Rashi Peripherals Limited')
('RRKABEL', 'R R Kabel Limited')
('RSSOFTWARE', 'R. S. Software (India) Limited')
('RSWM', 'RSWM Limited')
('RSYSTEMS', 'R Systems International Limited')
('RTNINDIA', 'RattanIndia Enterprises Limited')
('RTNPOWER', 'RattanIndia Power Limited')
('RUBFILA', 'Rubfila International Limited')
('RUBYMILLS', 'The Ruby Mills Limited')
('RUCHINFRA', 'Ruchi Infrastructure Limited')
('RUCHIRA', 'Ruchira Papers Limited')
('RUPA', 'Rupa & Company Limited')
('RUSHIL', 'Rushil Decor Limited')
('RUSTOMJEE', 'Keystone Realtors Limited')
('RVHL', 'Ravinder Heights Limited')
('RVNL', 'Rail Vikas Nigam Limited')
('S&SPOWER', 'S&S Power Switchgears Limited')
('SABEVENTS', 'Sab Events & Governance Now Media Limited')
('SABTNL', 'Sri Adhikari Brothers Television Network Limited')
('SADBHAV', 'Sadbhav Engineering Limited')
('SADBHIN', 'Sadbhav Infrastructure Project Limited')
('SADHNANIQ', 'Sadhana Nitrochem Limited')
('SAFARI', 'Safari Industries (India) Limited')
('SAGARDEEP', 'Sagardeep Alloys Limited')
('SAGCEM', 'Sagar Cements Limited')
('SAH', 'Sah Polymers Limited')
('SAHYADRI', 'Sahyadri Industries Limited')
('SAIL', 'Steel Authority of India Limited')
('SAKAR', 'Sakar Healthcare Limited')
('SAKHTISUG', 'Sakthi Sugars Limited')
('SAKSOFT', 'Saksoft Limited')
('SAKUMA', 'Sakuma Exports Limited')
```

```
('SALASAR', 'Salasar Techno Engineering Limited')
('SALONA', 'Salona Cotspin Limited')
('SALSTEEL', 'S.A.L. Steel Limited')
('SALZERELEC', 'Salzer Electronics Limited')
('SAMBHAAV', 'Sambhaav Media Limited')
('SAMHI', 'Samhi Hotels Limited')
('SAMMAANCAP', 'Sammaan Capital Limited')
('SAMPANN', 'Sampann Utpadan India Limited')
('SANCO', 'Sanco Industries Limited')
('SANDESH', 'The Sandesh Limited')
('SANDHAR', 'Sandhar Technologies Limited')
('SANDUMA', 'Sandur Manganese & Iron Ores Limited')
('SANGAMIND', 'Sangam (India) Limited')
('SANGHIIND', 'Sanghi Industries Limited')
('SANGHVIMOV', 'Sanghvi Movers Limited')
('SANGINITA', 'Sanginita Chemicals Limited')
('SANOFI', 'Sanofi India Limited')
('SANSERA', 'Sansera Engineering Limited')
('SANSTAR', 'Sanstar Limited')
('SANWARIA', 'Sanwaria Consumer Limited')
('SAPPHIRE', 'Sapphire Foods India Limited')
('SARDAEN', 'Sarda Energy & Minerals Limited')
('SAREGAMA', 'Saregama India Limited')
('SARLAPOLY', 'Sarla Performance Fibers Limited')
('SARVESHWAR', 'Sarveshwar Foods Limited')
('SASKEN', 'Sasken Technologies Limited')
('SASTASUNDR', 'Sastasundar Ventures Limited')
('SATIA', 'Satia Industries Limited')
('SATIN', 'Satin Creditcare Network Limited')
('SATINDLTD', 'Sat Industries Limited')
('SAURASHCEM', 'Saurashtra Cement Limited')
('SBC', 'SBC Exports Limited')
('SBCL', 'Shivalik Bimetal Controls Limited')
('SBFC', 'SBFC Finance Limited')
('SBGLP', 'Suratwwala Business Group Limited')
('SBICARD', 'SBI Cards and Payment Services Limited')
('SBILIFE', 'SBI Life Insurance Company Limited')
('SBIN', 'State Bank of India')
('SCHAEFFLER', 'Schaeffler India Limited')
('SCHAND', 'S Chand And Company Limited')
('SCHNEIDER', 'Schneider Electric Infrastructure Limited')
('SCI', 'Shipping Corporation Of India Limited')
```

```
('SCILAL', 'Shipping Corporation of India Land and Assets Limited')
('SCPL', 'Sheetal Cool Products Limited')
('SDBL', 'Som Distilleries & Breweries Limited')
('SEAMECLTD', 'Seamec Limited')
('SECMARK', 'SecMark Consultancy Limited')
('SECURCRED', 'SecUR Credentials Limited')
('SECURKLOUD', 'SECUREKLOUD TECHNOLOGIES LIMITED')
('SEJALLTD', 'Sejal Glass Limited')
('SELAN', 'Selan Exploration Technology Limited')
('SELMC', 'SEL Manufacturing Company Limited')
('SEMAC', 'SEMAC CONSULTANTS LIMITED')
('SENCO', 'Senco Gold Limited')
('SEPC', 'SEPC Limited')
('SEQUENT', 'Sequent Scientific Limited')
('SERVOTECH', 'Servotech Power Systems Limited')
('SESHAPAPER', 'Seshasayee Paper and Boards Limited')
('SETCO', 'Setco Automotive Limited')
('SETUINFRA', 'Setubandhan Infrastructure Limited')
('SFL', 'Sheela Foam Limited')
('SGIL', 'Synergy Green Industries Limited')
('SGL', 'STL Global Limited')
('SHAH', 'Shah Metacorp Limited')
('SHAHALLOYS', 'Shah Alloys Limited')
('SHAILY', 'Shaily Engineering Plastics Limited')
('SHAKTIPUMP', 'Shakti Pumps (India) Limited')
('SHALBY', 'Shalby Limited')
('SHALPAINTS', 'Shalimar Paints Limited')
('SHANKARA', 'Shankara Building Products Limited')
('SHANTI', 'Shanti Overseas (India) Limited')
('SHANTIGEAR', 'Shanthi Gears Limited')
('SHARDACROP', 'Sharda Cropchem Limited')
('SHARDAMOTR', 'Sharda Motor Industries Limited')
('SHAREINDIA', 'Share India Securities Limited')
('SHEKHAWATI', 'Shekhawati Industries Limited')
('SHEMAROO', 'Shemaroo Entertainment Limited')
('SHILPAMED', 'Shilpa Medicare Limited')
('SHIVALIK', 'Shivalik Rasayan Limited')
('SHIVAMAUTO', 'Shivam Autotech Limited')
('SHIVAMILLS', 'Shiva Mills Limited')
('SHIVATEX', 'Shiva Texyarn Limited')
('SHK', 'S H Kelkar and Company Limited')
('SHOPERSTOP', 'Shoppers Stop Limited')
```

```
('SHRADHA', 'Shradha Infraprojects Limited')
('SHREDIGCEM', 'Shree Digvijay Cement Co.Ltd')
('SHREECEM', 'SHREE CEMENT LIMITED')
('SHREEPUSHK', 'Shree Pushkar Chemicals & Fertilisers Limited')
('SHREERAMA', 'Shree Rama Multi-Tech Limited')
('SHRENIK', 'Shrenik Limited')
('SHREYANIND', 'Shreyans Industries Limited')
('SHREYAS', 'Shreyas Shipping & Logistics Limited')
('SHRIPISTON', 'Shriram Pistons & Rings Limited')
('SHRIRAMFIN', 'Shriram Finance Limited')
('SHRIRAMPPS', 'Shriram Properties Limited')
('SHYAMCENT', 'Shyam Century Ferrous Limited')
('SHYAMMETL', 'Shyam Metalics and Energy Limited')
('SHYAMTEL', 'Shyam Telecom Limited')
('SIEMENS', 'Siemens Limited')
('SIGACHI', 'Sigachi Industries Limited')
('SIGIND', 'Signet Industries Limited')
('SIGMA', 'Sigma Solve Limited')
('SIGNATURE', 'Signatureglobal (India) Limited')
('SIGNPOST', 'Signpost India Limited')
('SIKKO', 'Sikko Industries Limited')
('SIL', 'Standard Industries Limited')
('SILGO', 'Silgo Retail Limited')
('SILINV', 'SIL Investments Limited')
('SILLYMONKS', 'Silly Monks Entertainment Limited')
('SILVERTUC', 'Silver Touch Technologies Limited')
('SIMBHALS', 'Simbhaoli Sugars Limited')
('SIMPLEXINF', 'Simplex Infrastructures Limited')
('SINCLAIR', 'Sinclairs Hotels Limited')
('SINDHUTRAD', 'Sindhu Trade Links Limited')
('SINTERCOM', 'Sintercom India Limited')
('SIRCA', 'Sirca Paints India Limited')
('SIS', 'SIS LIMITED')
('SITINET', 'Siti Networks Limited')
('SIYSIL', 'Siyaram Silk Mills Limited')
('SJS', 'S.J.S. Enterprises Limited')
('SJVN', 'SJVN Limited')
('SKFINDIA', 'SKF India Limited')
('SKIPPER', 'Skipper Limited')
('SKMEGGPROD', 'SKM Egg Products Export (India) Limited')
('SKYGOLD', 'Sky Gold Limited')
('SMARTLINK', 'Smartlink Holdings Limited')
```

```
('SMCGLOBAL', 'SMC Global Securities Limited')
('SMLISUZU', 'SML Isuzu Limited')
('SMLT', 'Sarthak Metals Limited')
('SMSLIFE', 'SMS Lifesciences India Limited')
('SMSPHARMA', 'SMS Pharmaceuticals Limited')
('SNOWMAN', 'Snowman Logistics Limited')
('SOBHA', 'Sobha Limited')
('SOFTTECH', 'Softtech Engineers Limited')
('SOLARA', 'Solara Active Pharma Sciences Limited')
('SOLARINDS', 'Solar Industries India Limited')
('SOMANYCERA', 'Somany Ceramics Limited')
('SOMATEX', 'Soma Textiles & Industries Limited')
('SOMICONVEY', 'Somi Conveyor Beltings Limited')
('SONACOMS', 'Sona BLW Precision Forgings Limited')
('SONAMLTD', 'SONAM LIMITED')
('SONATSOFTW', 'Sonata Software Limited')
('SOTL', 'Savita Oil Technologies Limited')
('SOUTHBANK', 'The South Indian Bank Limited')
('SOUTHWEST', 'South West Pinnacle Exploration Limited')
('SPAL', 'S. P. Apparels Limited')
('SPANDANA', 'Spandana Sphoorty Financial Limited')
('SPARC', 'Sun Pharma Advanced Research Company Limited')
('SPCENET', 'Spacenet Enterprises India Limited')
('SPECIALITY', 'Speciality Restaurants Limited')
('SPENCERS', "Spencer's Retail Limited")
('SPIC', 'Southern Petrochemicals Industries Corporation  Limited')
('SPLIL', 'SPL Industries Limited')
('SPLPETRO', 'Supreme Petrochem Limited')
('SPMLINFRA', 'SPML Infra Limited')
('SPORTKING', 'Sportking India Limited')
('SREEL', 'Sreeleathers Limited')
('SRF', 'SRF Limited')
('SRGHFL', 'SRG Housing Finance Limited')
('SRHHYPOLTD', 'Sree Rayalaseema Hi-Strength Hypo Limited')
('SRM', 'SRM Contractors Limited')
('SRPL', 'Shree Ram Proteins Limited')
('SSDL', 'Saraswati Saree Depot Limited')
('SSWL', 'Steel Strips Wheels Limited')
('STANLEY', 'Stanley Lifestyles Limited')
('STAR', 'Strides Pharma Science Limited')
('STARCEMENT', 'Star Cement Limited')
('STARHEALTH', 'Star Health and Allied Insurance Company Limited')
```

```
('STARPAPER', 'Star Paper Mills Limited')
('STARTECK', 'Starteck Finance Limited')
('STCINDIA', 'The State Trading Corporation of India Limited')
('STEELCAS', 'Steelcast Limited')
('STEELCITY', 'Steel City Securities Limited')
('STEELXIND', 'STEEL EXCHANGE INDIA LIMITED')
('STEL', 'Stel Holdings Limited')
('STERTOOLS', 'Sterling Tools Limited')
('STLTECH', 'Sterlite Technologies Limited')
('STOVEKRAFT', 'Stove Kraft Limited')
('STYLAMIND', 'Stylam Industries Limited')
('STYRENIX', 'Styrenix Performance Materials Limited')
('SUBEXLTD', 'Subex Limited')
('SUBROS', 'Subros Limited')
('SUDARSCHEM', 'Sudarshan Chemical Industries Limited')
('SUKHJITS', 'Sukhjit Starch & Chemicals Limited')
('SULA', 'Sula Vineyards Limited')
('SUMEETINDS', 'Sumeet Industries Limited')
('SUMICHEM', 'Sumitomo Chemical India Limited')
('SUMIT', 'Sumit Woods Limited')
('SUMMITSEC', 'Summit Securities Limited')
('SUNCLAY', 'Sundaram Clayton Limited')
('SUNDARAM', 'Sundaram Multi Pap Limited')
('SUNDARMFIN', 'Sundaram Finance Limited')
('SUNDARMHLD', 'Sundaram Finance Holdings Limited')
('SUNDRMBRAK', 'Sundaram Brake Linings Limited')
('SUNDRMFAST', 'Sundram Fasteners Limited')
('SUNFLAG', 'Sunflag Iron And Steel Company Limited')
('SUNPHARMA', 'Sun Pharmaceutical Industries Limited')
('SUNTECK', 'Sunteck Realty Limited')
('SUNTV', 'Sun TV Network Limited')
('SUPERHOUSE', 'Superhouse Limited')
('SUPERSPIN', 'Super Spinning Mills Limited')
('SUPRAJIT', 'Suprajit Engineering Limited')
('SUPREMEENG', 'Supreme Engineering Limited')
('SUPREMEIND', 'Supreme Industries Limited')
('SUPREMEINF', 'Supreme Infrastructure India Limited')
('SUPRIYA', 'Supriya Lifescience Limited')
('SURAJEST', 'Suraj Estate Developers Limited')
('SURANASOL', 'Surana Solar Limited')
('SURANAT&P', 'Surana Telecom and Power Limited')
('SURYALAXMI', 'Suryalakshmi Cotton Mills Limited')
```

```
('SURYAROSNI', 'Surya Roshni Limited')
('SURYODAY', 'Suryoday Small Finance Bank Limited')
('SUTLEJTEX', 'Sutlej Textiles and Industries Limited')
('SUULD', 'Suumaya Industries Limited')
('SUVEN', 'Suven Life Sciences Limited')
('SUVENPHAR', 'Suven Pharmaceuticals Limited')
('SUVIDHAA', 'Suvidhaa Infoserve Limited')
('SUYOG', 'Suyog Telematics Limited')
('SUZLON', 'Suzlon Energy Limited')
('SVLL', 'Shree Vasu Logistics Limited')
('SVPGLOB', 'SVP GLOBAL TEXTILES LIMITED')
('SWANENERGY', 'Swan Energy Limited')
('SWARAJENG', 'Swaraj Engines Limited')
('SWELECTES', 'Swelect Energy Systems Limited')
('SWSOLAR', 'Sterling and Wilson Renewable Energy Limited')
('SYMPHONY', 'Symphony Limited')
('SYNCOMF', 'Syncom Formulations (India) Limited')
('SYNGENE', 'Syngene International Limited')
('SYRMA', 'Syrma SGS Technology Limited')
('TAINWALCHM', 'Tainwala Chemical and Plastic (I) Limited')
('TAJGVK', 'Taj GVK Hotels & Resorts Limited')
('TAKE', 'Take Solutions Limited')
('TALBROAUTO', 'Talbros Automotive Components Limited')
('TANLA', 'Tanla Platforms Limited')
('TARACHAND', 'Tara Chand InfraLogistic Solutions Limited')
('TARAPUR', 'Tarapur Transformers Limited')
('TARC', 'Anant Raj Global Limited')
('TARMAT', 'Tarmat Limited')
('TARSONS', 'Tarsons Products Limited')
('TASTYBITE', 'Tasty Bite Eatables Limited')
('TATACHEM', 'Tata Chemicals Limited')
('TATACOMM', 'Tata Communications Limited')
('TATACONSUM', 'TATA CONSUMER PRODUCTS LIMITED')
('TATAELXSI', 'Tata Elxsi Limited')
('TATAINVEST', 'Tata Investment Corporation Limited')
('TATAMOTORS', 'Tata Motors Limited')
('TATAMTRDVR', 'Tata Motors Limited')
('TATAPOWER', 'Tata Power Company Limited')
('TATASTEEL', 'Tata Steel Limited')
('TATATECH', 'Tata Technologies Limited')
('TATVA', 'Tatva Chintan Pharma Chem Limited')
('TBOTEK', 'TBO Tek Limited')
```

```
('TBZ', 'Tribhovandas Bhimji Zaveri Limited')
('TCI', 'Transport Corporation of India Limited')
('TCIEXP', 'TCI Express Limited')
('TCIFINANCE', 'TCI Finance Limited')
('TCLCONS', 'Tantia Constructions Limited')
('TCNSBRANDS', 'TCNS Clothing Co. Limited')
('TCPLPACK', 'TCPL Packaging Limited')
('TCS', 'Tata Consultancy Services Limited')
('TDPOWERSYS', 'TD Power Systems Limited')
('TEAMLEASE', 'Teamlease Services Limited')
('TECHIN', 'Techindia Nirman Limited')
('TECHM', 'Tech Mahindra Limited')
('TECHNOE', 'Techno Electric & Engineering Company Limited')
('TECILCHEM', 'TECIL Chemicals and Hydro Power Limited')
('TEGA', 'Tega Industries Limited')
('TEJASNET', 'Tejas Networks Limited')
('TEMBO', 'Tembo Global Industries Limited')
('TERASOFT', 'Tera Software Limited')
('TEXINFRA', 'Texmaco Infrastructure & Holdings Limited')
('TEXMOPIPES', 'Texmo Pipes and Products Limited')
('TEXRAIL', 'Texmaco Rail & Engineering Limited')
('TFCILTD', 'Tourism Finance Corporation of India Limited')
('TFL', 'Transwarranty Finance Limited')
('TGBHOTELS', 'TGB Banquets And Hotels Limited')
('THANGAMAYL', 'Thangamayil Jewellery Limited')
('THEINVEST', 'The Investment Trust Of India Limited')
('THEJO', 'Thejo Engineering Limited')
('THEMISMED', 'Themis Medicare Limited')
('THERMAX', 'Thermax Limited')
('THOMASCOOK', 'Thomas Cook  (India)  Limited')
('THOMASCOTT', 'Thomas Scott (India) Limited')
('THYROCARE', 'Thyrocare Technologies Limited')
('TI', 'Tilaknagar Industries Limited')
('TIDEWATER', 'Tide Water Oil Company (India) Limited')
('TIIL', 'Technocraft Industries (India) Limited')
('TIINDIA', 'Tube Investments of India Limited')
('TIJARIA', 'Tijaria Polypipes Limited')
('TIL', 'TIL Limited')
('TIMESGTY', 'Times Guaranty Limited')
('TIMETECHNO', 'Time Technoplast Limited')
('TIMKEN', 'Timken India Limited')
('TIPSFILMS', 'Tips Films Limited')
```

```
('TIPSINDLTD', 'TIPS Industries Limited')
('TIRUMALCHM', 'Thirumalai Chemicals Limited')
('TIRUPATIFL', 'Tirupati Forge Limited')
('TITAGARH', 'TITAGARH RAIL SYSTEMS LIMITED')
('TITAN', 'Titan Company Limited')
('TMB', 'Tamilnad Mercantile Bank Limited')
('TNPETRO', 'Tamilnadu PetroProducts Limited')
('TNPL', 'Tamil Nadu Newsprint & Papers Limited')
('TNTELE', 'Tamilnadu Telecommunication Limited')
('TOKYOPLAST', 'Tokyo Plast International Limited')
('TORNTPHARM', 'Torrent Pharmaceuticals Limited')
('TORNTPOWER', 'Torrent Power Limited')
('TOTAL', 'Total Transport Systems Limited')
('TOUCHWOOD', 'Touchwood Entertainment Limited')
('TPHQ', 'Teamo Productions HQ Limited')
('TPLPLASTEH', 'TPL Plastech Limited')
('TRACXN', 'Tracxn Technologies Limited')
('TREEHOUSE', 'Tree House Education & Accessories Limited')
('TREJHARA', 'TREJHARA SOLUTIONS LIMITED')
('TREL', 'Transindia Real Estate Limited')
('TRENT', 'Trent Limited')
('TRF', 'TRF Limited')
('TRIDENT', 'Trident Limited')
('TRIGYN', 'Trigyn Technologies Limited')
('TRIL', 'Transformers And Rectifiers (India) Limited')
('TRITURBINE', 'Triveni Turbine Limited')
('TRIVENI', 'Triveni Engineering & Industries Limited')
('TRU', 'TruCap Finance Limited')
('TTKHLTCARE', 'TTK Healthcare Limited')
('TTKPRESTIG', 'TTK Prestige Limited')
('TTL', 'T T Limited')
('TTML', 'Tata Teleservices (Maharashtra) Limited')
('TV18BRDCST', 'TV18 Broadcast Limited')
('TVSELECT', 'TVS Electronics Limited')
('TVSHLTD', 'TVS Holdings Limited')
('TVSMOTOR', 'TVS Motor Company Limited')
('TVSSCS', 'TVS Supply Chain Solutions Limited')
('TVSSRICHAK', 'TVS Srichakra Limited')
('TVTODAY', 'TV Today Network Limited')
('TVVISION', 'TV Vision Limited')
('UBL', 'United Breweries Limited')
('UCAL', 'UCAL LIMITED')
```

```
('UCOBANK', 'UCO Bank')
('UDAICEMENT', 'Udaipur Cement Works Limited')
('UDS', 'Updater Services Limited')
('UFLEX', 'UFLEX Limited')
('UFO', 'UFO Moviez India Limited')
('UGARSUGAR', 'The Ugar Sugar Works Limited')
('UGROCAP', 'Ugro Capital Limited')
('UJJIVANSFB', 'Ujjivan Small Finance Bank Limited')
('ULTRACEMCO', 'UltraTech Cement Limited')
('UMAEXPORTS', 'Uma Exports Limited')
('UMANGDAIRY', 'Umang Dairies Limited')
('UMESLTD', 'Usha Martin Education & Solutions Limited')
('UNICHEMLAB', 'Unichem Laboratories Limited')
('UNIDT', 'United Drilling Tools Limited')
('UNIECOM', 'Unicommerce Esolutions Limited')
('UNIENTER', 'Uniphos Enterprises Limited')
('UNIINFO', 'Uniinfo Telecom Services Limited')
('UNIONBANK', 'Union Bank of India')
('UNIPARTS', 'Uniparts India Limited')
('UNITDSPR', 'United Spirits Limited')
('UNITECH', 'Unitech Limited')
('UNITEDPOLY', 'United Polyfab Gujarat Limited')
('UNITEDTEA', 'The United Nilgiri Tea Estates Company Limited')
('UNIVASTU', 'Univastu India Limited')
('UNIVCABLES', 'Universal Cables Limited')
('UNIVPHOTO', 'Universus Photo Imagings Limited')
('UNOMINDA', 'UNO Minda Limited')
('UPL', 'UPL Limited')
('URAVI', 'Uravi T and Wedge Lamps Limited')
('URJA', 'Urja Global Limited')
('USHAMART', 'Usha Martin Limited')
('USK', 'Udayshivakumar Infra Limited')
('UTIAMC', 'UTI Asset Management Company Limited')
('UTKARSHBNK', 'Utkarsh Small Finance Bank Limited')
('UTTAMSUGAR', 'Uttam Sugar Mills Limited')
('V2RETAIL', 'V2 Retail Limited')
('VADILALIND', 'Vadilal Industries Limited')
('VAIBHAVGBL', 'Vaibhav Global Limited')
('VAISHALI', 'Vaishali Pharma Limited')
('VAKRANGEE', 'Vakrangee Limited')
('VALIANTLAB', 'Valiant Laboratories Limited')
('VALIANTORG', 'Valiant Organics Limited')
```

```
('VARDHACRLC', 'Vardhman Acrylics Limited')
('VARDMNPOLY', 'Vardhman Polytex Limited')
('VARROC', 'Varroc Engineering Limited')
('VASCONEQ', 'Vascon Engineers Limited')
('VASWANI', 'Vaswani Industries Limited')
('VBL', 'Varun Beverages Limited')
('VEDL', 'Vedanta Limited')
('VENKEYS', "Venky's (India) Limited")
('VENUSPIPES', 'Venus Pipes & Tubes Limited')
('VENUSREM', 'Venus Remedies Limited')
('VERANDA', 'Veranda Learning Solutions Limited')
('VERTOZ', 'Vertoz Limited')
('VESUVIUS', 'Vesuvius India Limited')
('VETO', 'Veto Switchgears And Cables Limited')
('VGUARD', 'V-Guard Industries Limited')
('VHL', 'Vardhman Holdings Limited')
('VHLTD', 'Viceroy Hotels Limited')
('VIDHIING', 'Vidhi Specialty Food Ingredients Limited')
('VIJAYA', 'Vijaya Diagnostic Centre Limited')
('VIJIFIN', 'Viji Finance Limited')
('VIKASECO', 'Vikas EcoTech Limited')
('VIKASLIFE', 'Vikas Lifecare Limited')
('VIMTALABS', 'Vimta Labs Limited')
('VINATIORGA', 'Vinati Organics Limited')
('VINDHYATEL', 'Vindhya Telelinks Limited')
('VINEETLAB', 'Vineet Laboratories Limited')
('VINNY', 'Vinny Overseas Limited')
('VINYLINDIA', 'Vinyl Chemicals (India) Limited')
('VIPCLOTHNG', 'VIP Clothing Limited')
('VIPIND', 'VIP Industries Limited')
('VIPULLTD', 'Vipul Limited')
('VIRINCHI', 'Virinchi Limited')
('VISAKAIND', 'Visaka Industries Limited')
('VISHNU', 'Vishnu Chemicals Limited')
('VISHWARAJ', 'Vishwaraj Sugar Industries Limited')
('VIVIDHA', 'Visagar Polytex Limited')
('VLEGOV', 'VL E-Governance & IT Solutions Limited')
('VLSFINANCE', 'VLS Finance Limited')
('VMART', 'V-Mart Retail Limited')
('VOLTAMP', 'Voltamp Transformers Limited')
('VOLTAS', 'Voltas Limited')
('VPRPL', 'Vishnu Prakash R Punglia Limited')
```

```
('VRAJ', 'Vraj Iron and Steel Limited')
('VRLLOG', 'VRL Logistics Limited')
('VSSL', 'Vardhman Special Steels Limited')
('VSTIND', 'VST Industries Limited')
('VSTL', 'Vibhor Steel Tubes Limited')
('VSTTILLERS', 'V.S.T Tillers Tractors Limited')
('VTL', 'Vardhman Textiles Limited')
('WABAG', 'VA Tech Wabag Limited')
('WALCHANNAG', 'Walchandnagar Industries Limited')
('WANBURY', 'Wanbury Limited')
('WEALTH', 'Wealth First Portfolio Managers Limited')
('WEBELSOLAR', 'Websol Energy System Limited')
('WEIZMANIND', 'Weizmann Limited')
('WEL', 'Wonder Electricals Limited')
('WELCORP', 'Welspun Corp Limited')
('WELENT', 'Welspun Enterprises Limited')
('WELINV', 'Welspun Investments and Commercials Limited')
('WELSPUNLIV', 'Welspun Living Limited')
('WENDT', 'Wendt (India) Limited')
('WESTLIFE', 'WESTLIFE FOODWORLD LIMITED')
('WEWIN', 'WE WIN LIMITED')
('WHEELS', 'Wheels India Limited')
('WHIRLPOOL', 'Whirlpool of India Limited')
('WILLAMAGOR', 'Williamson Magor & Company Limited')
('WINDLAS', 'Windlas Biotech Limited')
('WINDMACHIN', 'Windsor Machines Limited')
('WINSOME', 'Winsome Yarns Limited')
('WIPL', 'The Western India Plywoods Limited')
('WIPRO', 'Wipro Limited')
('WOCKPHARMA', 'Wockhardt Limited')
('WONDERLA', 'Wonderla Holidays Limited')
('WORTH', 'Worth Peripherals Limited')
('WSI', 'W S Industries (I) Limited')
('WSTCSTPAPR', 'West Coast Paper Mills Limited')
('XCHANGING', 'Xchanging Solutions Limited')
('XELPMOC', 'Xelpmoc Design And Tech Limited')
('XPROINDIA', 'Xpro India Limited')
('YAARI', 'Yaari Digital Integrated Services Limited')
('YASHO', 'Yasho Industries Limited')
('YATHARTH', 'Yatharth Hospital & Trauma Care Services Limited')
('YATRA', 'Yatra Online Limited')
('YESBANK', 'Yes Bank Limited')
```

```
('YUKEN', 'Yuken India Limited')
('ZAGGLE', 'Zaggle Prepaid Ocean Services Limited')
('ZEEL', 'Zee Entertainment Enterprises Limited')
('ZEELEARN', 'Zee Learn Limited')
('ZEEMEDIA', 'Zee Media Corporation Limited')
('ZENITHEXPO', 'Zenith Exports Limited')
('ZENITHSTL', 'Zenith Steel Pipes & Industries Limited')
('ZENSARTECH', 'Zensar Technologies Limited')
('ZENTEC', 'Zen Technologies Limited')
('ZFCVINDIA', 'ZF Commercial Vehicle Control Systems India Limited')
('ZIMLAB', 'Zim Laboratories Limited')
('ZODIAC', 'Zodiac Energy Limited')
('ZODIACLOTH', 'Zodiac Clothing Company Limited')
('ZOMATO', 'Zomato Limited')
('ZOTA', 'Zota Health Care LImited')
('ZUARI', 'Zuari Agro Chemicals Limited')
('ZUARIIND', 'ZUARI INDUSTRIES LIMITED')
('ZYDUSLIFE', 'Zydus Lifesciences Limited')
('ZYDUSWELL', 'Zydus Wellness Limited')
```

In [63]:
```python
# All Details for NSE stocks : Symbol is the required field
for name in download_csv.SYMBOL:
    try:
        data = yf.download(f'{name}.NS')
        data.to_csv(f'G:/anaconda/data collection/data/{name}.csv') # Data will be stored in data folder
    except Exception as e:
        print(f'{name} ===> {e}')
```

```
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
```

```
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
[********************100%**********************] 1 of 1 completed
```

```
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed
[*********************100%***********************]  1 of 1 completed

1 Failed download:
['KALYANI.NS']: YFInvalidPeriodError("%ticker%: Period 'max' is invalid, must be one of ['1d', '5d']")
[*********************100%***********************]  1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
```

```
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
```

```
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
```

```
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
[*******************100%*********************]  1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
```

```
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
[*********************100%**********************]  1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
[********************100%*********************] 1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
```

```
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
```

```
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
[*******************100%*********************] 1 of 1 completed
```

```
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
[********************100%*********************]  1 of 1 completed
```

```
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
[*********************100%**********************] 1 of 1 completed
```

```
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
[********************100%********************] 1 of 1 completed
```

```
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
[********************100%***********************]  1 of 1 completed
```

In [68]:
```python
import matplotlib.pyplot as plt
import matplotlib.pyplot as plt

# Plotting a line chart for 'Close' prices over time
plt.figure(figsize=(10, 5))
plt.plot(data['Open'], data['Close'], label='Close Price')
plt.xlabel('Date')
plt.ylabel('Close Price')
plt.title('TATAMTRDVR Close Price Over Time')
plt.legend()
plt.show()
```

TATAMTRDVR Close Price Over Time

```
In [69]:  import matplotlib.pyplot as plt

          # Plotting a line chart for 'Close' prices over time
          plt.figure(figsize=(10, 5))
          plt.plot(data['Open'], data['Close'], label='Close Price')
          plt.xlabel('Date')
          plt.ylabel('Close Price')
          plt.title('TATAMTRDVR Close Price Over Time')
          plt.legend()
          plt.show()
```
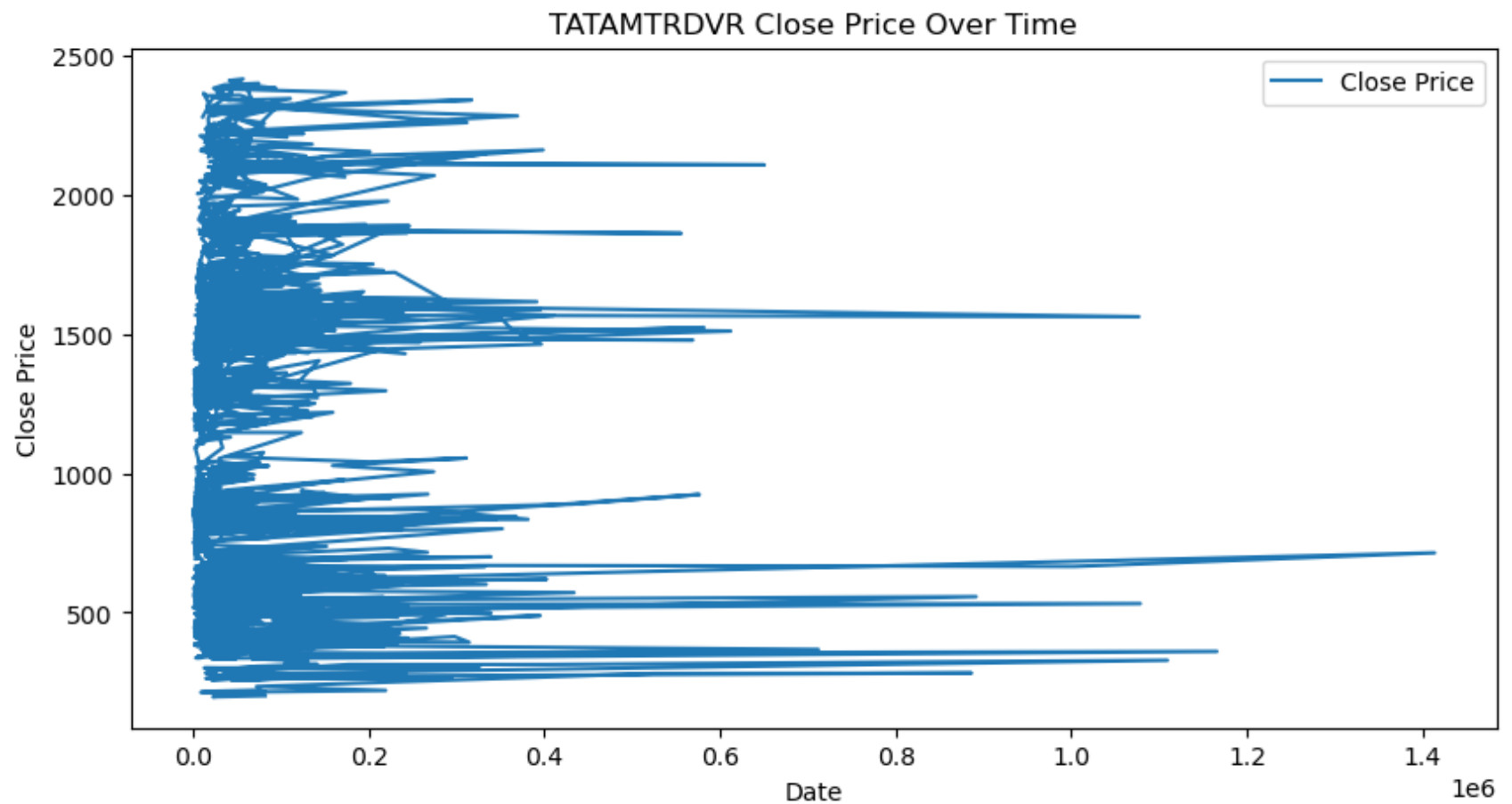
TATAMTRDVR Close Price Over Time
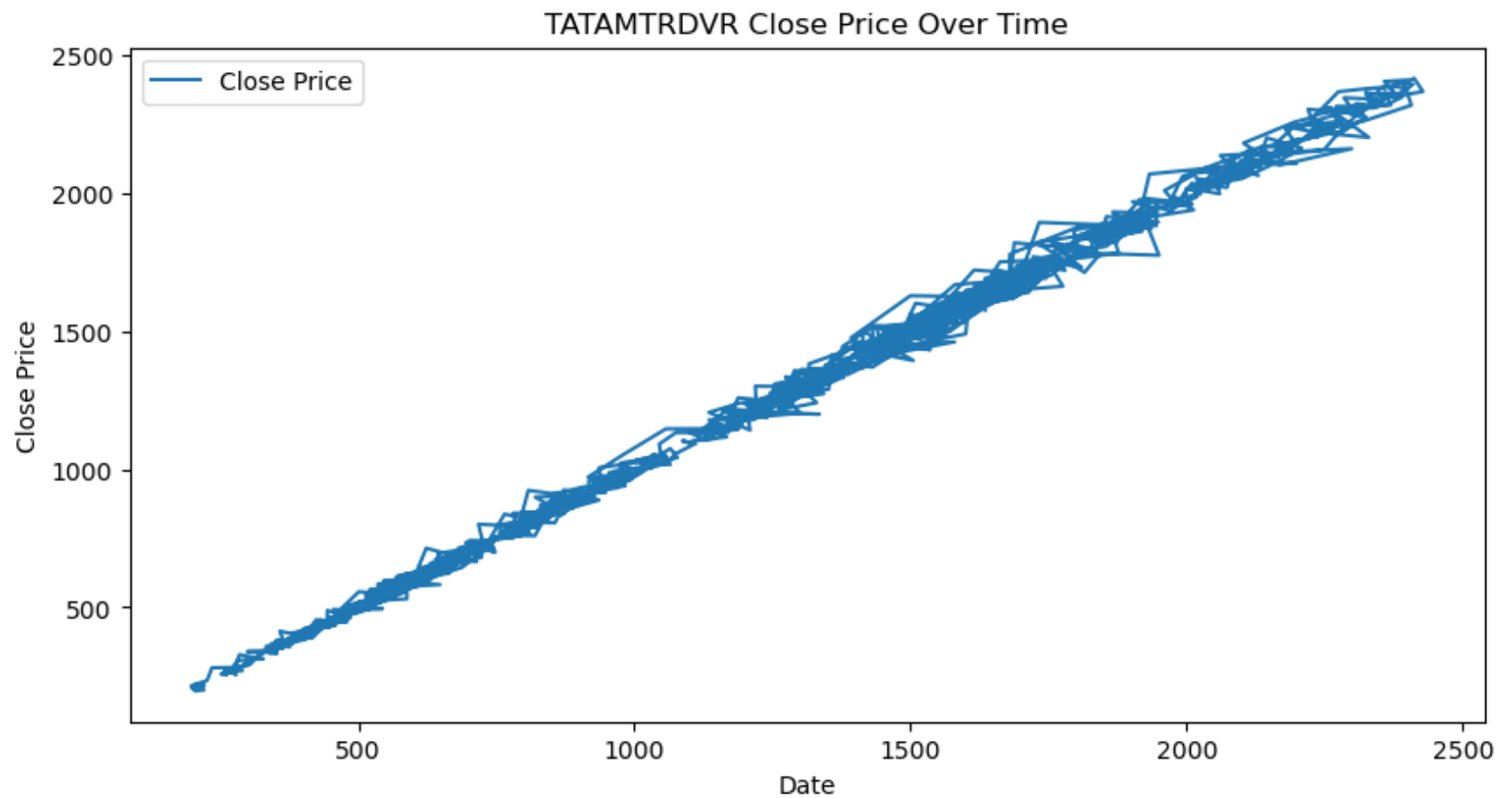
In [72]:
```python
# Plotting a histogram of 'Close' prices
plt.figure(figsize=(10, 5))
plt.hist(data['Close'], bins=20, color='green', edgecolor='black')
plt.xlabel('Close Price')
plt.ylabel('Frequency')
plt.title('Distribution of TATAMTRDVR Close Prices')
plt.show()
```

Distribution of TATAMTRDVR Close Prices
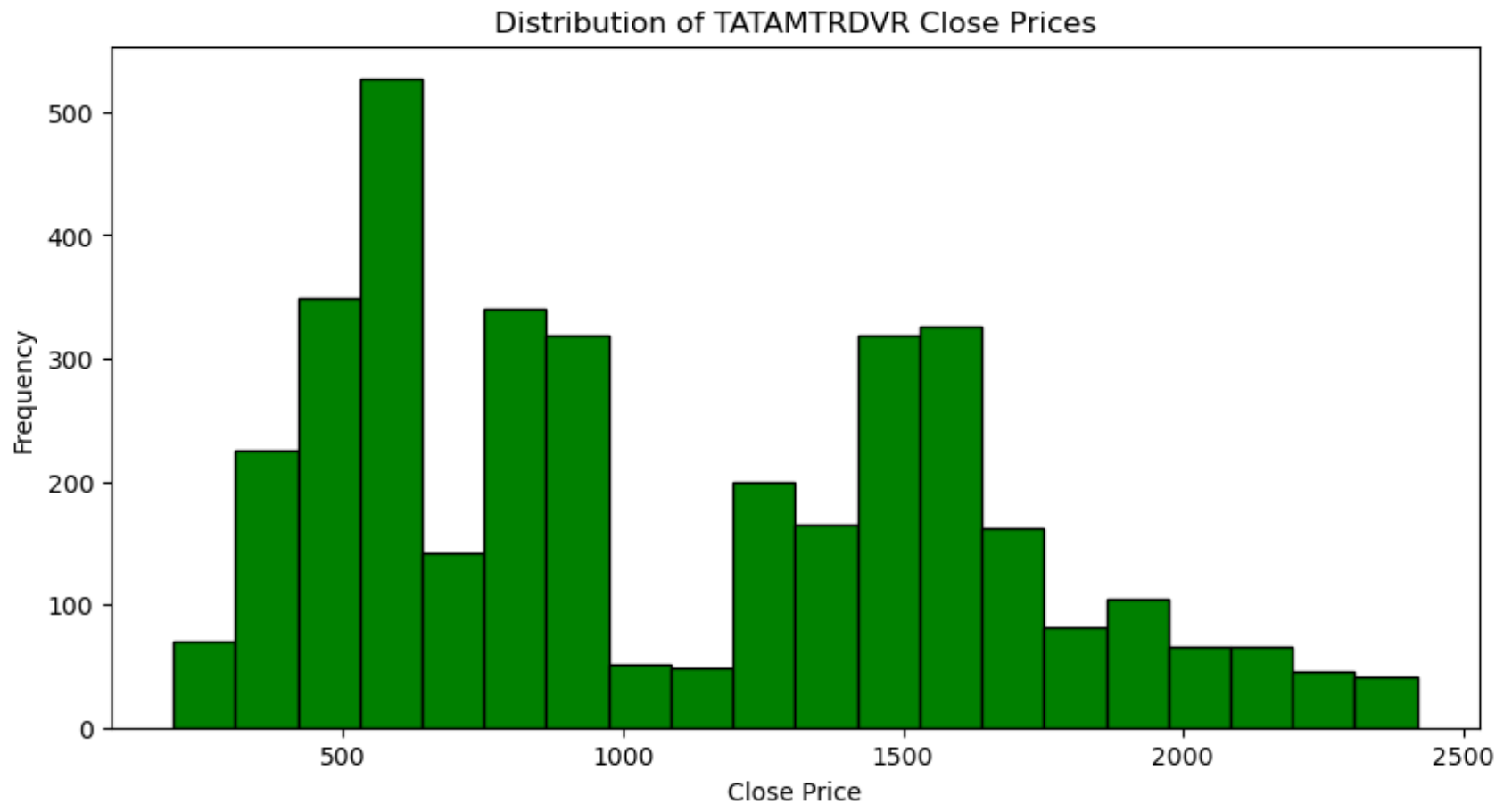
```
In [73]: # Plotting a histogram of 'Close' prices
         plt.figure(figsize=(10, 5))
         plt.hist(data['Open'], bins=20, color='green', edgecolor='black')
         plt.xlabel('Close Price')
         plt.ylabel('Frequency')
         plt.title('Distribution of TATAMTRDVR Close Prices')
         plt.show()
```

Distribution of TATAMTRDVR Close Prices
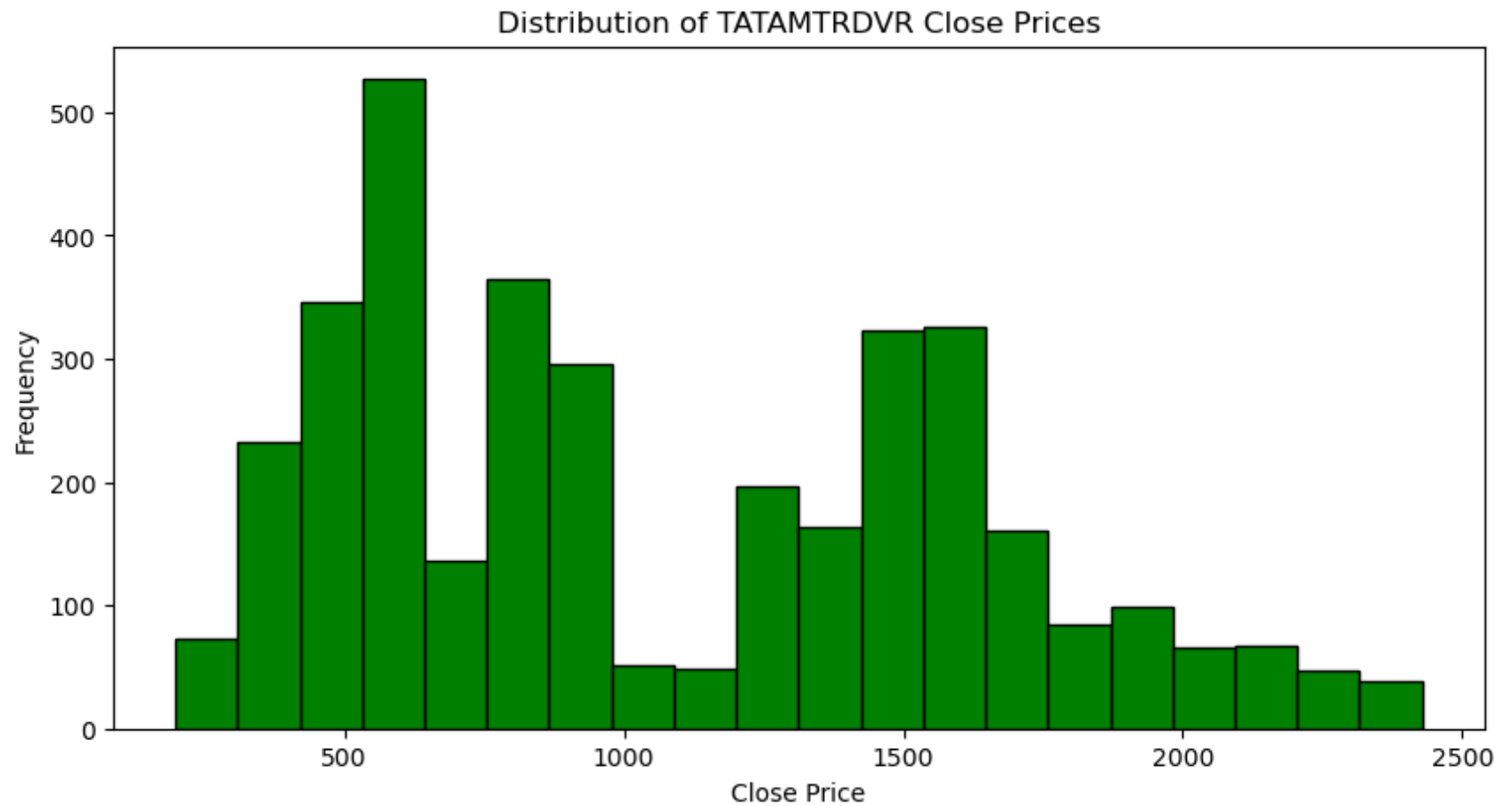

```
In [75]:   # Plotting a scatter plot for 'High' vs 'Low' prices
           plt.figure(figsize=(10, 5))
           plt.scatter(data['High'], data['Low'], color='purple')
           plt.xlabel('High Price')
           plt.ylabel('Low Price')
           plt.title('High vs Low Prices of TATAMTRDVR')
           plt.show()
```

High vs Low Prices of TATAMTRDVR
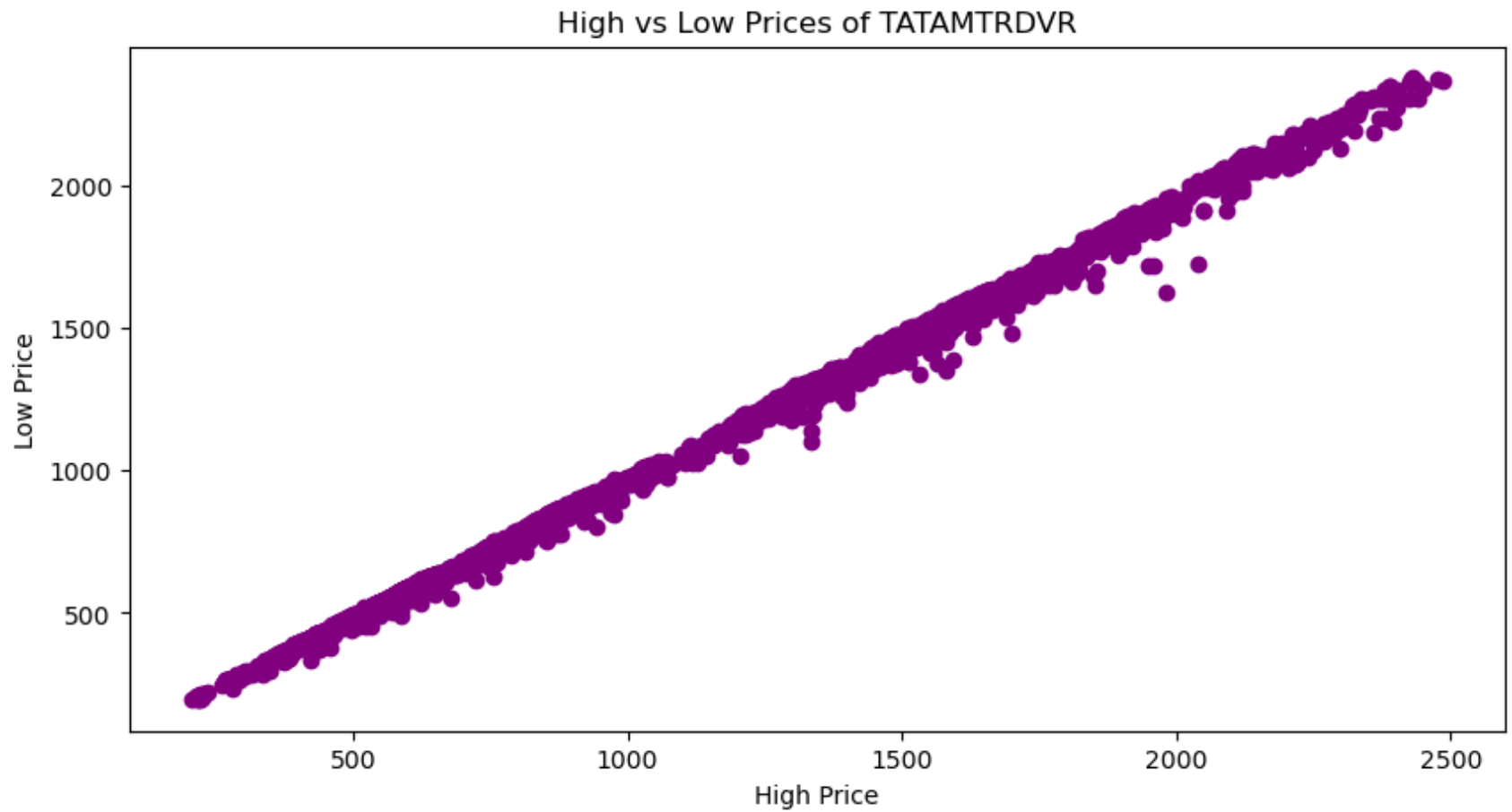
```
In [82]: import mplfinance as mpf

         # Plotting a candlestick chart for the TATAMTRDVR data
         mpf.plot(data.set_index('Open'), type='candle', style='charles', title='TATAMTRDVR Candlestick Chart', volume=True)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[82], line 4
      1 import mplfinance as mpf
      3 # Plotting a candlestick chart for the TATAMTRDVR data
----> 4 mpf.plot(data.set_index('Open'), type='candle', style='charles', title='TATAMTRDVR Candlestick Chart', volume
=True)

File G:\anaconda\anaconda notebook\Lib\site-packages\mplfinance\plotting.py:417, in plot(data, **kwargs)
    414 # translate alias types:
    415 config['type'] = _get_valid_plot_types(config['type'])
--> 417 dates,opens,highs,lows,closes,volumes = _check_and_prepare_data(data, config)
    419 config['xlim'] = _check_and_convert_xlim_configuration(data, config)
    421 if config['type'] in VALID_PMOVE_TYPES and config['addplot'] is not None:

File G:\anaconda\anaconda notebook\Lib\site-packages\mplfinance\_arg_validators.py:32, in _check_and_prepare_data(dat
a, config)
     29      raise TypeError('Expect data as DataFrame')
     31 if not isinstance(data.index,pd.core.indexes.datetimes.DatetimeIndex):
--> 32      raise TypeError('Expect data.index as DatetimeIndex')
     34 # We will not be fully case-insensitive (since Pandas columns as NOT case-insensitive)
     35 # but because so many people have requested it, for the default column names we will
     36 # try both Capitalized and lower case:
     37 columns = config['columns']

TypeError: Expect data.index as DatetimeIndex
```

In [77]: `!pip install  mplfinance`

```
Collecting mplfinance
  Downloading mplfinance-0.12.10b0-py3-none-any.whl.metadata (19 kB)
Requirement already satisfied: matplotlib in g:\anaconda\anaconda notebook\lib\site-packages (from mplfinance)
(3.8.4)
Requirement already satisfied: pandas in g:\anaconda\anaconda notebook\lib\site-packages (from mplfinance) (2.2.2)
Requirement already satisfied: contourpy>=1.0.1 in g:\anaconda\anaconda notebook\lib\site-packages (from matplotlib->
mplfinance) (1.2.0)
Requirement already satisfied: cycler>=0.10 in g:\anaconda\anaconda notebook\lib\site-packages (from matplotlib->mplf
inance) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in g:\anaconda\anaconda notebook\lib\site-packages (from matplotlib-
>mplfinance) (4.51.0)
Requirement already satisfied: kiwisolver>=1.3.1 in g:\anaconda\anaconda notebook\lib\site-packages (from matplotlib-
>mplfinance) (1.4.4)
Requirement already satisfied: numpy>=1.21 in g:\anaconda\anaconda notebook\lib\site-packages (from matplotlib->mplfi
nance) (1.26.4)
Requirement already satisfied: packaging>=20.0 in g:\anaconda\anaconda notebook\lib\site-packages (from matplotlib->m
plfinance) (23.2)
Requirement already satisfied: pillow>=8 in g:\anaconda\anaconda notebook\lib\site-packages (from matplotlib->mplfina
nce) (10.3.0)
Requirement already satisfied: pyparsing>=2.3.1 in g:\anaconda\anaconda notebook\lib\site-packages (from matplotlib->
mplfinance) (3.0.9)
Requirement already satisfied: python-dateutil>=2.7 in g:\anaconda\anaconda notebook\lib\site-packages (from matplotl
ib->mplfinance) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in g:\anaconda\anaconda notebook\lib\site-packages (from pandas->mplfinan
ce) (2024.1)
Requirement already satisfied: tzdata>=2022.7 in g:\anaconda\anaconda notebook\lib\site-packages (from pandas->mplfin
ance) (2023.3)
Requirement already satisfied: six>=1.5 in g:\anaconda\anaconda notebook\lib\site-packages (from python-dateutil>=
2.7->matplotlib->mplfinance) (1.16.0)
Downloading mplfinance-0.12.10b0-py3-none-any.whl (75 kB)
   ---------------------------------------- 0.0/75.0 kB ? eta -:--:--
   ----- ---------------------------------- 10.2/75.0 kB ? eta -:--:--
   ------------------------------------ - 71.7/75.0 kB 975.2 kB/s eta 0:00:01
   ---------------------------------------- 75.0/75.0 kB 830.5 kB/s eta 0:00:00
Installing collected packages: mplfinance
Successfully installed mplfinance-0.12.10b0
```

In [89]:
```python
import seaborn as sns

# Plotting a box plot for 'Close' prices
plt.figure(figsize=(10, 5))
sns.boxplot(x=data['Open'])
```

```
plt.title('Box Plot of TATAMTRDVR Close Prices')
plt.show()
```

Box Plot of TATAMTRDVR Close Prices
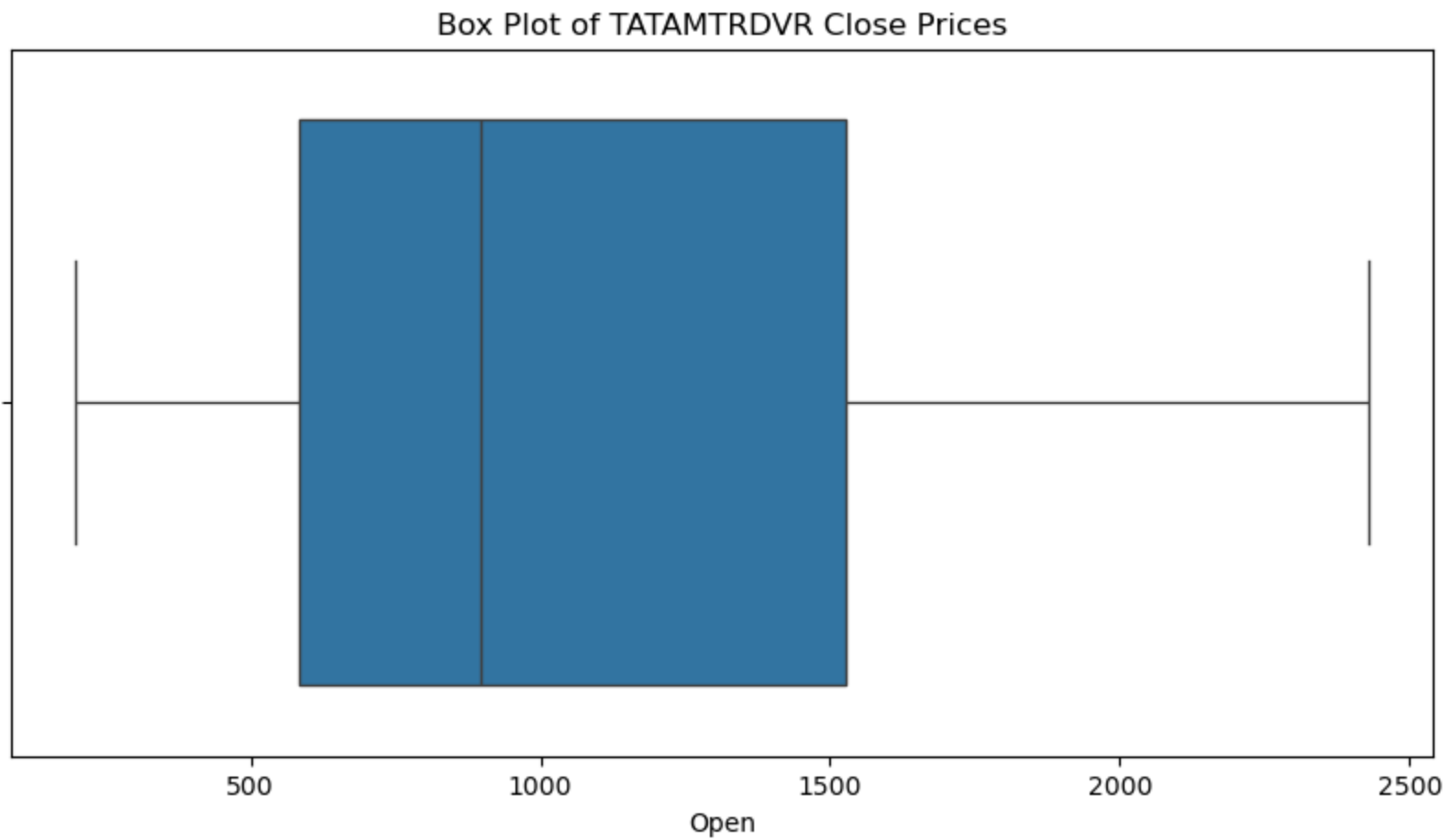
```
sns.pairplot(data[['Open', 'High', 'Low', 'Close', 'Volume']])
plt.show()
```
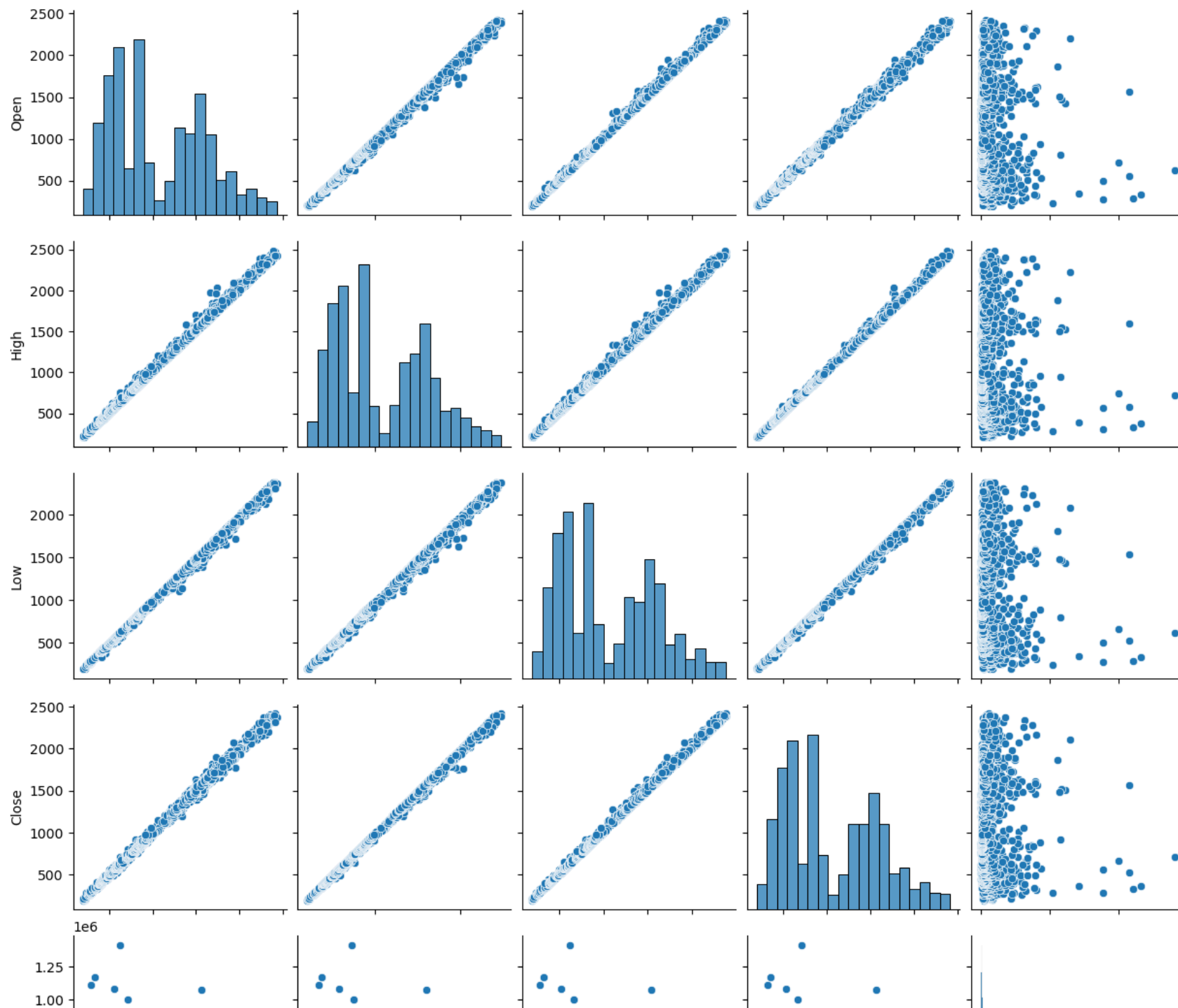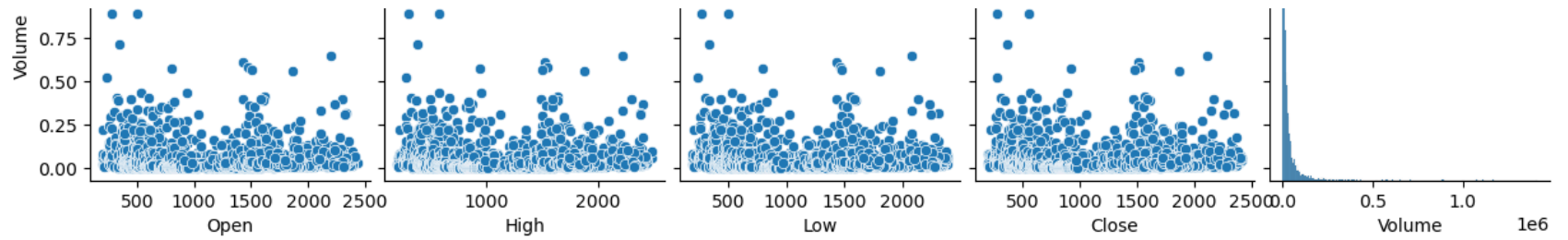
```
In [87]: plt.figure(figsize=(8, 6))
         sns.heatmap(data[['Open', 'High', 'Low', 'Close', 'Adj Close', 'Volume']].corr(), annot=True, cmap='coolwarm')
         plt.title('Correlation Heatmap')
         plt.show()
```

Correlation Heatmap
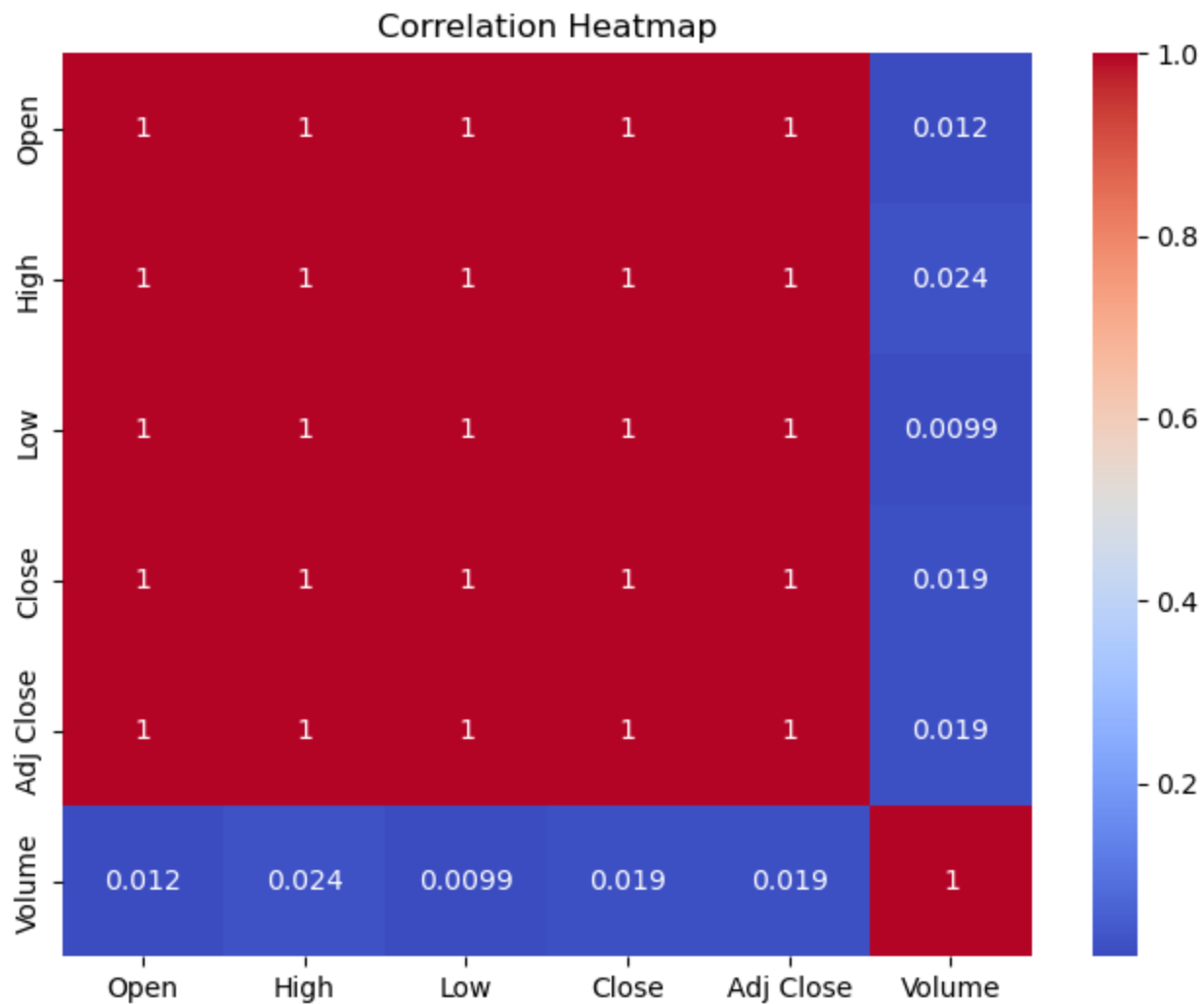

```
In [88]:  plt.savefig('path_to_save_image.png')

          <Figure size 640x480 with 0 Axes>

In [ ]:   import os

In [ ]:   company_data=[
          ('20MICRONS', '20 Microns Limited'),
          ('21STCENMGM', '21st Century Management Services Limited'),
          ('360ONE', '360 ONE WAM LIMITED'),
```

```
('3IINFOLTD', '3i Infotech Limited'),
('3MINDIA', '3M India Limited'),
('3PLAND', '3P Land Holdings Limited'),
('5PAISA', '5Paisa Capital Limited'),
('63MOONS', '63 moons technologies limited'),
('A2ZINFRA', 'A2Z Infra Engineering Limited'),
('AAATECH', 'AAA Technologies Limited'),
('AADHARHFC', 'Aadhar Housing Finance Limited'),
('AAKASH', 'Aakash Exploration Services Limited'),
('AAREYDRUGS', 'Aarey Drugs & Pharmaceuticals Limited'),
('AARON', 'Aaron Industries Limited'),
('AARTECH', 'Aartech Solonics Limited'),
('AARTIDRUGS', 'Aarti Drugs Limited'),
('AARTIIND', 'Aarti Industries Limited'),
('AARTIPHARM', 'Aarti Pharmalabs Limited'),
('AARTISURF', 'Aarti Surfactants Limited'),
('AARVEEDEN', 'Aarvee Denims & Exports Limited'),
('AARVI', 'Aarvi Encon Limited'),
('AAVAS', 'Aavas Financiers Limited'),
('ABAN', 'Aban Offshore Limited'),
('ABB', 'ABB India Limited'),
('ABBOTINDIA', 'Abbott India Limited'),
('ABCAPITAL', 'Aditya Birla Capital Limited'),
('ABDL', 'Allied Blenders and Distillers Limited'),
('ABFRL', 'Aditya Birla Fashion and Retail Limited'),
('ABMINTLLTD', 'ABM International Limited'),
('ABSLAMC', 'Aditya Birla Sun Life AMC Limited'),
('ACC', 'ACC Limited'),
('ACCELYA', 'Accelya Solutions India Limited'),
('ACCURACY', 'Accuracy Shipping Limited'),
('ACE', 'Action Construction Equipment Limited'),
('ACEINTEG', 'Ace Integrated Solutions Limited'),
('ACI', 'Archean Chemical Industries Limited'),
('ACL', 'Andhra Cements Limited'),
('ACLGATI', 'Allcargo Gati Limited'),
('ADANIENSOL', 'Adani Energy Solutions Limited'),
('ADANIENT', 'Adani Enterprises Limited'),
('ADANIGREEN', 'Adani Green Energy Limited'),
('ADANIPORTS', 'Adani Ports and Special Economic Zone Limited'),
('ADANIPOWER', 'Adani Power Limited'),
('ADFFOODS', 'ADF Foods Limited'),
('ADL', 'Archidply Decor Limited'),
```

```
('ADORWELD', 'Ador Welding Limited'),
('ADROITINFO', 'Adroit Infotech Limited'),
('ADSL', 'Allied Digital Services Limited'),
('ADVANIHOTR', 'Advani Hotels & Resorts (India), Limited'),
('ADVENZYMES', 'Advanced Enzyme Technologies Limited'),
('AEGISLOG', 'Aegis Logistics Limited'),
('AEROFLEX', 'Aeroflex Industries Limited'),
('AETHER', 'Aether Industries Limited'),
('AFFLE', 'Affle (India), Limited'),
('AFIL', 'Akme Fintrade (India), Limited'),
('AGARIND', 'Agarwal Industrial Corporation Limited'),
('AGI', 'AGI Greenpac Limited'),
('AGIIL', 'Agi Infra Limited'),
('AGRITECH', 'Agri-Tech (India), Limited'),
('AGROPHOS', 'Agro Phos India Limited'),
('AGSTRA', 'AGS Transact Technologies Limited'),
('AHL', 'Abans Holdings Limited'),
('AHLADA', 'Ahlada Engineers Limited'),
('AHLEAST', 'Asian Hotels (East), Limited'),
('AHLUCONT', 'Ahluwalia Contracts (India), Limited'),
('AIAENG', 'AIA Engineering Limited'),
('AIIL', 'Authum Investment & Infrastructure Limited'),
('AIRAN', 'Airan Limited'),
('AIROLAM', 'Airo Lam limited'),
('AJANTPHARM', 'Ajanta Pharma Limited'),
('AJMERA', 'Ajmera Realty & Infra India Limited'),
('AJOONI', 'Ajooni Biotech Limited'),
('AKASH', 'Akash Infra-Projects Limited'),
('AKG', 'Akg Exim Limited'),
('AKI', 'AKI India Limited'),
('AKSHAR', 'Akshar Spintex Limited'),
('AKSHARCHEM', 'AksharChem India Limited'),
('AKSHOPTFBR', 'Aksh Optifibre Limited'),
('AKUMS', 'Akums Drugs and Pharmaceuticals Limited'),
('AKZOINDIA', 'Akzo Nobel India Limited'),
('ALANKIT', 'Alankit Limited'),
('ALBERTDAVD', 'Albert David Limited'),
('ALEMBICLTD', 'Alembic Limited'),
('ALICON', 'Alicon Castalloy Limited'),
('ALKALI', 'Alkali Metals Limited'),
('ALKEM', 'Alkem Laboratories Limited'),
('ALKYLAMINE', 'Alkyl Amines Chemicals Limited'),
```

```
('ALLCARGO', 'Allcargo Logistics Limited'),
('ALLSEC', 'Allsec Technologies Limited'),
('ALMONDZ', 'Almondz Global Securities Limited'),
('ALOKINDS', 'Alok Industries Limited'),
('ALPA', 'Alpa Laboratories Limited'),
('ALPHAGEO', 'Alphageo (India), Limited'),
('ALPSINDUS', 'Alps Industries Limited'),
('AMBER', 'Amber Enterprises India Limited'),
('AMBICAAGAR', 'Ambica Agarbathies & Aroma industries Limited'),
('AMBIKCO', 'Ambika Cotton Mills Limited'),
('AMBUJACEM', 'Ambuja Cements Limited'),
('AMDIND', 'AMD Industries Limited'),
('AMIORG', 'Ami Organics Limited'),
('AMJLAND', 'Amj Land Holdings Limited'),
('AMNPLST', 'Amines & Plasticizers Limited'),
('AMRUTANJAN', 'Amrutanjan Health Care Limited'),
('ANANDRATHI', 'Anand Rathi Wealth Limited'),
('ANANTRAJ', 'Anant Raj Limited'),
('ANDHRAPAP', 'ANDHRA PAPER LIMITED'),
('ANDHRSUGAR', 'The Andhra Sugars Limited'),
('ANGELONE', 'Angel One Limited'),
('ANIKINDS', 'Anik Industries Limited'),
('ANMOL', 'Anmol India Limited'),
('ANSALAPI', 'Ansal Properties & Infrastructure Limited'),
('ANTGRAPHIC', 'Antarctica Limited'),
('ANUP', 'The Anup Engineering Limited'),
('ANURAS', 'Anupam Rasayan India Limited'),
('APARINDS', 'Apar Industries Limited'),
('APCL', 'Anjani Portland Cement Limited'),
('APCOTEXIND', 'Apcotex Industries Limited'),
('APEX', 'Apex Frozen Foods Limited'),
('APLAPOLLO', 'APL Apollo Tubes Limited'),
('APLLTD', 'Alembic Pharmaceuticals Limited'),
('APOLLO', 'Apollo Micro Systems Limited'),
('APOLLOHOSP', 'Apollo Hospitals Enterprise Limited'),
('APOLLOPIPE', 'Apollo Pipes Limited'),
('APOLLOTYRE', 'Apollo Tyres Limited'),
('APOLSINHOT', 'Apollo Sindoori Hotels Limited'),
('APTECHT', 'Aptech Limited'),
('APTUS', 'Aptus Value Housing Finance India Limited'),
('ARCHIDPLY', 'Archidply Industries Limited'),
('ARCHIES', 'Archies Limited'),
```

```
('ARE&M', 'Amara Raja Energy & Mobility Limited'),
('ARENTERP', 'Rajdarshan Industries Limited'),
('ARIES', 'Aries Agro Limited'),
('ARIHANTCAP', 'Arihant Capital Markets Limited'),
('ARIHANTSUP', 'Arihant Superstructures Limited'),
('ARMANFIN', 'Arman Financial Services Limited'),
('AROGRANITE', 'Aro Granite Industries Limited'),
('ARROWGREEN', 'Arrow Greentech Limited'),
('ARSHIYA', 'Arshiya Limited'),
('ARSSINFRA', 'ARSS Infrastructure Projects Limited'),
('ARTEMISMED', 'Artemis Medicare Services Limited'),
('ARTNIRMAN', 'Art Nirman Limited'),
('ARVEE', 'Arvee Laboratories (India), Limited'),
('ARVIND', 'Arvind Limited'),
('ARVINDFASN', 'Arvind Fashions Limited'),
('ARVSMART', 'Arvind SmartSpaces Limited'),
('ASAHIINDIA', 'Asahi India Glass Limited'),
('ASAHISONG', 'Asahi Songwon Colors Limited'),
('ASAL', 'Automotive Stampings and Assemblies Limited'),
('ASALCBR', 'Associated Alcohols & Breweries Ltd.'),
('ASHAPURMIN', 'Ashapura Minechem Limited'),
('ASHIANA', 'Ashiana Housing Limited'),
('ASHIMASYN', 'Ashima Limited'),
('ASHOKA', 'Ashoka Buildcon Limited'),
('ASHOKAMET', 'Ashoka Metcast Limited'),
('ASHOKLEY', 'Ashok Leyland Limited'),
('ASIANENE', 'Asian Energy Services Limited'),
('ASIANHOTNR', 'Asian Hotels (North), Limited'),
('ASIANPAINT', 'Asian Paints Limited'),
('ASIANTILES', 'Asian Granito India Limited'),
('ASKAUTOLTD', 'ASK Automotive Limited'),
('ASMS', 'Bartronics India Limited'),
('ASPINWALL', 'Aspinwall and Company Limited'),
('ASTEC', 'Astec LifeSciences Limited'),
('ASTERDM', 'Aster DM Healthcare Limited'),
('ASTRAL', 'Astral Limited'),
('ASTRAMICRO', 'Astra Microwave Products Limited'),
('ASTRAZEN', 'AstraZeneca Pharma India Limited'),
('ASTRON', 'Astron Paper & Board Mill Limited'),
('ATALREAL', 'Atal Realtech Limited'),
('ATAM', 'Atam Valves Limited'),
('ATFL', 'Agro Tech Foods Limited'),
```

```
('ATGL', 'Adani Total Gas Limited'),
('ATL', 'Allcargo Terminals Limited'),
('ATLANTAA', 'ATLANTAA LIMITED'),
('ATUL', 'Atul Limited'),
('ATULAUTO', 'Atul Auto Limited'),
('AUBANK', 'AU Small Finance Bank Limited'),
('AURIONPRO', 'Aurionpro Solutions Limited'),
('AUROPHARMA', 'Aurobindo Pharma Limited'),
('AURUM', 'Aurum PropTech Limited'),
('AUSOMENT', 'Ausom Enterprise Limited'),
('AUTOAXLES', 'Automotive Axles Limited'),
('AUTOIND', 'Autoline Industries Limited'),
('AVADHSUGAR', 'Avadh Sugar & Energy Limited'),
('AVALON', 'Avalon Technologies Limited'),
('AVANTEL', 'Avantel Limited'),
('AVANTIFEED', 'Avanti Feeds Limited'),
('AVG', 'AVG Logistics Limited'),
('AVONMORE', 'Avonmore Capital & Management Services Limited'),
('AVROIND', 'AVRO INDIA LIMITED'),
('AVTNPL', 'AVT Natural Products Limited'),
('AWFIS', 'Awfis Space Solutions Limited'),
('AWHCL', 'Antony Waste Handling Cell Limited'),
('AWL', 'Adani Wilmar Limited'),
('AXISBANK', 'Axis Bank Limited'),
('AXISCADES', 'AXISCADES Technologies Limited'),
('AXITA', 'Axita Cotton Limited'),
('AYMSYNTEX', 'AYM Syntex Limited'),
('AZAD', 'Azad Engineering Limited'),
('BAFNAPH', 'Bafna Pharmaceuticals Limited'),
('BAGFILMS', 'B.A.G Films and Media Limited'),
('BAIDFIN', 'Baid Finserv Limited'),
('BAJAJ-AUTO', 'Bajaj Auto Limited'),
('BAJAJCON', 'Bajaj Consumer Care Limited'),
('BAJAJELEC', 'Bajaj Electricals Limited'),
('BAJAJFINSV', 'Bajaj Finserv Limited'),
('BAJAJHCARE', 'Bajaj Healthcare Limited'),
('BAJAJHIND', 'Bajaj Hindusthan Sugar Limited'),
('BAJAJHLDNG', 'Bajaj Holdings & Investment Limited'),
('BAJEL', 'Bajel Projects Limited'),
('BAJFINANCE', 'Bajaj Finance Limited'),
('BALAJITELE', 'Balaji Telefilms Limited'),
('BALAMINES', 'Balaji Amines Limited'),
```

```
('BALAXI', 'BALAXI PHARMACEUTICALS LIMITED'),
('BALKRISHNA', 'Balkrishna Paper Mills Limited'),
('BALKRISIND', 'Balkrishna Industries Limited'),
('BALMLAWRIE', 'Balmer Lawrie & Company Limited'),
('BALPHARMA', 'Bal Pharma Limited'),
('BALRAMCHIN', 'Balrampur Chini Mills Limited'),
('BALUFORGE', 'Balu Forge Industries Limited'),
('BANARBEADS', 'Banaras Beads Limited'),
('BANARISUG', 'Bannari Amman Sugars Limited'),
('BANCOINDIA', 'Banco Products (I), Limited'),
('BANDHANBNK', 'Bandhan Bank Limited'),
('BANG', 'Bang Overseas Limited'),
('BANKA', 'Banka BioLoo Limited'),
('BANKBARODA', 'Bank of Baroda'),
('BANKINDIA', 'Bank of India'),
('BANSALWIRE', 'Bansal Wire Industries Limited'),
('BANSWRAS', 'Banswara Syntex Limited'),
('BARBEQUE', 'Barbeque Nation Hospitality Limited'),
('BASF', 'BASF India Limited'),
('BASML', 'Bannari Amman Spinning Mills Limited'),
('BATAINDIA', 'Bata India Limited'),
('BAYERCROP', 'Bayer Cropscience Limited'),
('BBL', 'Bharat Bijlee Limited'),
('BBOX', 'Black Box Limited'),
('BBTC', 'Bombay Burmah Trading Corporation Limited'),
('BBTCL', 'B&B Triplewall Containers Limited'),
('BCLIND', 'Bcl Industries Limited'),
('BCONCEPTS', 'Brand Concepts Limited'),
('BDL', 'Bharat Dynamics Limited'),
('BEARDSELL', 'Beardsell Limited'),
('BECTORFOOD', 'Mrs. Bectors Food Specialities Limited'),
('BEDMUTHA', 'Bedmutha Industries Limited'),
('BEL', 'Bharat Electronics Limited'),
('BEML', 'BEML Limited'),
('BEPL', 'Bhansali Engineering Polymers Limited'),
('BERGEPAINT', 'Berger Paints (I), Limited'),
('BESTAGRO', 'Best Agrolife Limited'),
('BFINVEST', 'BF Investment Limited'),
('BFUTILITIE', 'BF Utilities Limited'),
('BGRENERGY', 'BGR Energy Systems Limited'),
('BHAGCHEM', 'Bhagiradha Chemicals & Industries Limited'),
('BHAGERIA', 'Bhageria Industries Limited'),
```

```
('BHAGYANGR', 'Bhagyanagar India Limited'),
('BHANDARI', 'Bhandari Hosiery Exports Limited'),
('BHARATFORG', 'Bharat Forge Limited'),
('BHARATGEAR', 'Bharat Gears Limited'),
('BHARATRAS', 'Bharat Rasayan Limited'),
('BHARATWIRE', 'Bharat Wire Ropes Limited'),
('BHARTIARTL', 'Bharti Airtel Limited'),
('BHARTIHEXA', 'Bharti Hexacom Limited'),
('BHEL', 'Bharat Heavy Electricals Limited'),
('BIGBLOC', 'Bigbloc Construction Limited'),
('BIKAJI', 'Bikaji Foods International Limited'),
('BIL', 'Bhartiya International Limited'),
('BINANIIND', 'Binani Industries Limited'),
('BIOCON', 'Biocon Limited'),
('BIOFILCHEM', 'Biofil Chemicals & Pharmaceuticals Limited'),
('BIRLACABLE', 'Birla Cable Limited'),
('BIRLACORPN', 'Birla Corporation Limited'),
('BIRLAMONEY', 'Aditya Birla Money Limited'),
('BLAL', 'BEML Land Assets Limited'),
('BLBLIMITED', 'BLB Limited'),
('BLISSGVS', 'Bliss GVS Pharma Limited'),
('BLKASHYAP', 'B. L. Kashyap and Sons Limited'),
('BLS', 'BLS International Services Limited'),
('BLSE', 'BLS E-Services Limited'),
('BLUECHIP', 'Blue Chip India Limited'),
('BLUEDART', 'Blue Dart Express Limited'),
('BLUEJET', 'Blue Jet Healthcare Limited'),
('BLUESTARCO', 'Blue Star Limited'),
('BODALCHEM', 'Bodal Chemicals Limited'),
('BOMDYEING', 'Bombay Dyeing & Mfg Company Limited'),
('BOROLTD', 'Borosil Limited'),
('BORORENEW', 'BOROSIL RENEWABLES LIMITED'),
('BOROSCI', 'Borosil Scientific Limited'),
('BOSCHLTD', 'Bosch Limited'),
('BPCL', 'Bharat Petroleum Corporation Limited'),
('BPL', 'BPL Limited'),
('BRIGADE', 'Brigade Enterprises Limited'),
('BRITANNIA', 'Britannia Industries Limited'),
('BRNL', 'Bharat Road Network Limited'),
('BROOKS', 'Brooks Laboratories Limited'),
('BSE', 'BSE Limited'),
('BSHSL', 'Bombay Super Hybrid Seeds Limited'),
```

```
('BSL', 'BSL Limited'),
('BSOFT', 'BIRLASOFT LIMITED'),
('BTML', 'Bodhi Tree Multimedia Limited'),
('BURNPUR', 'Burnpur Cement Limited'),
('BUTTERFLY', 'Butterfly Gandhimathi Appliances Limited'),
('BVCL', 'Barak Valley Cements Limited'),
('BYKE', 'The Byke Hospitality Ltd'),
('CALSOFT', 'California Software Company Limited'),
('CAMLINFINE', 'Camlin Fine Sciences Limited'),
('CAMPUS', 'Campus Activewear Limited'),
('CAMS', 'Computer Age Management Services Limited'),
('CANBK', 'Canara Bank'),
('CANFINHOME', 'Can Fin Homes Limited'),
('CANTABIL', 'Cantabil Retail India Limited'),
('CAPACITE', "Capacit'e Infraprojects Limited"),
('CAPITALSFB', 'Capital Small Finance Bank Limited'),
('CAPLIPOINT', 'Caplin Point Laboratories Limited'),
('CAPTRUST', 'Capital Trust Limited'),
('CARBORUNIV', 'Carborundum Universal Limited'),
('CAREERP', 'Career Point Limited'),
('CARERATING', 'CARE Ratings Limited'),
('CARTRADE', 'Cartrade Tech Limited'),
('CARYSIL', 'CARYSIL LIMITED'),
('CASTROLIND', 'Castrol India Limited'),
('CCHHL', 'Country Club Hospitality & Holidays Limited'),
('CCL', 'CCL Products (India), Limited'),
('CDSL', 'Central Depository Services (India), Limited'),
('CEATLTD', 'CEAT Limited'),
('CEIGALL', 'Ceigall India Limited'),
('CELEBRITY', 'Celebrity Fashions Limited'),
('CELLO', 'Cello World Limited'),
('CENTENKA', 'Century Enka Limited'),
('CENTEXT', 'Century Extrusions Limited'),
('CENTRALBK', 'Central Bank of India'),
('CENTRUM', 'Centrum Capital Limited'),
('CENTUM', 'Centum Electronics Limited'),
('CENTURYPLY', 'Century Plyboards (India), Limited'),
('CENTURYTEX', 'Century Textiles & Industries Limited'),
('CERA', 'Cera Sanitaryware Limited'),
('CEREBRAINT', 'Cerebra Integrated Technologies Limited'),
('CESC', 'CESC Limited'),
('CGCL', 'Capri Global Capital Limited'),
```

```
('CGPOWER', 'CG Power and Industrial Solutions Limited'),
('CHALET', 'Chalet Hotels Limited'),
('CHAMBLFERT', 'Chambal Fertilizers & Chemicals Limited'),
('CHEMBOND', 'Chembond Chemicals Ltd'),
('CHEMCON', 'Chemcon Speciality Chemicals Limited'),
('CHEMFAB', 'Chemfab Alkalis Limited'),
('CHEMPLASTS', 'Chemplast Sanmar Limited'),
('CHENNPETRO', 'Chennai Petroleum Corporation Limited'),
('CHEVIOT', 'Cheviot Company Limited'),
('CHOICEIN', 'Choice International Limited'),
('CHOLAFIN', 'Cholamandalam Investment and Finance Company Limited'),
('CHOLAHLDNG', 'Cholamandalam Financial Holdings Limited'),
('CIEINDIA', 'CIE Automotive India Limited'),
('CIGNITITEC', 'Cigniti Technologies Limited'),
('CINELINE', 'Cineline India Limited'),
('CINEVISTA', 'Cinevista Limited'),
('CIPLA', 'Cipla Limited'),
('CLEAN', 'Clean Science and Technology Limited'),
('CLEDUCATE', 'CL Educate Limited'),
('CLSEL', 'Chaman Lal Setia Exports Limited'),
('CMSINFO', 'CMS Info Systems Limited'),
('COALINDIA', 'Coal India Limited'),
('COASTCORP', 'Coastal Corporation Limited'),
('COCHINSHIP', 'Cochin Shipyard Limited'),
('COFFEEDAY', 'Coffee Day Enterprises Limited'),
('COFORGE', 'Coforge Limited'),
('COLPAL', 'Colgate Palmolive (India), Limited'),
('COMPUSOFT', 'Compucom Software Limited'),
('COMSYN', 'Commercial Syn Bags Limited'),
('CONCOR', 'Container Corporation of India Limited'),
('CONCORDBIO', 'Concord Biotech Limited'),
('CONFIPET', 'Confidence Petroleum India Limited'),
('CONSOFINVT', 'Consolidated Finvest & Holdings Limited'),
('CONTROLPR', 'Control Print Limited'),
('CORALFINAC', 'Coral India Finance & Housing Limited'),
('CORDSCABLE', 'Cords Cable Industries Limited'),
('COROMANDEL', 'Coromandel International Limited'),
('COSMOFIRST', 'COSMO FIRST LIMITED'),
('COUNCODOS', "Country Condo's Limited"),
('CRAFTSMAN', 'Craftsman Automation Limited'),
('CREATIVE', 'Creative Newtech Limited'),
('CREATIVEYE', 'Creative Eye Limited'),
```

```
('CREDITACC', 'CREDITACCESS GRAMEEN LIMITED'),
('CREST', 'Crest Ventures Limited'),
('CRISIL', 'CRISIL Limited'),
('CROMPTON', 'Crompton Greaves Consumer Electricals Limited'),
('CROWN', 'Crown Lifters Limited'),
('CSBBANK', 'CSB Bank Limited'),
('CSLFINANCE', 'CSL Finance Limited'),
('CTE', 'Cambridge Technology Enterprises Limited'),
('CUB', 'City Union Bank Limited'),
('CUBEXTUB', 'Cubex Tubings Limited'),
('CUMMINSIND', 'Cummins India Limited'),
('CUPID', 'Cupid Limited'),
('CYBERMEDIA', 'Cyber Media (India), Limited'),
('CYBERTECH', 'Cybertech Systems And Software Limited'),
('CYIENT', 'Cyient Limited'),
('CYIENTDLM', 'Cyient DLM Limited'),
('DABUR', 'Dabur India Limited'),
('DALBHARAT', 'Dalmia Bharat Limited'),
('DALMIASUG', 'Dalmia Bharat Sugar and Industries Limited'),
('DAMODARIND', 'Damodar Industries Limited'),
('DANGEE', 'Dangee Dums Limited'),
('DATAMATICS', 'Datamatics Global Services Limited'),
('DATAPATTNS', 'Data Patterns (India), Limited'),
('DAVANGERE', 'Davangere Sugar Company Limited'),
('DBCORP', 'D.B.Corp Limited'),
('DBL', 'Dilip Buildcon Limited'),
('DBOL', 'Dhampur Bio Organics Limited'),
('DBREALTY', 'Valor Estate Limited'),
('DBSTOCKBRO', 'DB (International), Stock Brokers Limited'),
('DCAL', 'Dishman Carbogen Amcis Limited'),
('DCBBANK', 'DCB Bank Limited'),
('DCI', 'Dc Infotech And Communication Limited'),
('DCM', 'DCM  Limited'),
('DCMFINSERV', 'DCM Financial Services Limited'),
('DCMNVL', 'DCM Nouvelle Limited'),
('DCMSHRIRAM', 'DCM Shriram Limited'),
('DCMSRIND', 'DCM Shriram Industries Limited'),
('DCW', 'DCW Limited'),
('DCXINDIA', 'DCX Systems Limited'),
('DECCANCE', 'Deccan Cements Limited'),
('DEEDEV', 'DEE Development Engineers Limited'),
('DEEPAKFERT', 'Deepak Fertilizers and Petrochemicals Corporation Limited'),
```

```
('DEEPAKNTR', 'Deepak Nitrite Limited'),
('DEEPENR', 'DEEP ENERGY RESOURCES LIMITED'),
('DEEPINDS', 'Deep Industries Limited'),
('DELHIVERY', 'Delhivery Limited'),
('DELPHIFX', 'DELPHI WORLD MONEY LIMITED'),
('DELTACORP', 'Delta Corp Limited'),
('DELTAMAGNT', 'Delta Manufacturing Limited'),
('DEN', 'Den Networks Limited'),
('DENORA', 'De Nora India Limited'),
('DEVIT', 'Dev Information Technology Limited'),
('DEVYANI', 'Devyani International Limited'),
('DGCONTENT', 'Digicontent Limited'),
('DHAMPURSUG', 'Dhampur Sugar Mills Limited'),
('DHANBANK', 'Dhanlaxmi Bank Limited'),
('DHANI', 'Dhani Services Limited'),
('DHANUKA', 'Dhanuka Agritech Limited'),
('DHARMAJ', 'Dharmaj Crop Guard Limited'),
('DHRUV', 'Dhruv Consultancy Services Limited'),
('DHUNINV', 'Dhunseri Investments Limited'),
('DIACABS', 'Diamond Power Infrastructure Limited'),
('DIAMINESQ', 'Diamines & Chemicals Limited'),
('DIAMONDYD', 'Prataap Snacks Limited'),
('DICIND', 'DIC India Limited'),
('DIGIDRIVE', 'Digidrive Distributors Limited'),
('DIGISPICE', 'DiGiSPICE Technologies Limited'),
('DIGJAMLMTD', 'Digjam Limited'),
('DIL', 'Debock Industries Limited'),
('DISHTV', 'Dish TV India Limited'),
('DIVGIITTS', 'Divgi Torqtransfer Systems Limited'),
('DIVISLAB', "Divi's Laboratories Limited"),
('DIXON', 'Dixon Technologies (India), Limited'),
('DJML', 'DJ Mediaprint & Logistics Limited'),
('DLF', 'DLF Limited'),
('DLINKINDIA', 'D-Link (India), Limited'),
('DMART', 'Avenue Supermarts Limited'),
('DMCC', 'DMCC SPECIALITY CHEMICALS LIMITED'),
('DNAMEDIA', 'Diligent Media Corporation Limited'),
('DODLA', 'Dodla Dairy Limited'),
('DOLATALGO', 'Dolat Algotech Limited'),
('DOLLAR', 'Dollar Industries Limited'),
('DOLPHIN', 'Dolphin Offshore Enterprises (India), Limited'),
('DOMS', 'DOMS Industries Limited'),
```

```
('DONEAR', 'Donear Industries Limited'),
('DPABHUSHAN', 'D. P. Abhushan Limited'),
('DPSCLTD', 'DPSC Limited'),
('DPWIRES', 'D P Wires Limited'),
('DRCSYSTEMS', 'DRC Systems India Limited'),
('DREAMFOLKS', 'Dreamfolks Services Limited'),
('DREDGECORP', 'Dredging Corporation of India Limited'),
('DRREDDY', "Dr. Reddy's Laboratories Limited"),
('DSSL', 'Dynacons Systems & Solutions Limited'),
('DTIL', 'Dhunseri Tea & Industries Limited'),
('DUCON', 'Ducon Infratechnologies Limited'),
('DVL', 'Dhunseri Ventures Limited'),
('DWARKESH', 'Dwarikesh Sugar Industries Limited'),
('DYCL', 'Dynamic Cables Limited'),
('DYNAMATECH', 'Dynamatic Technologies Limited'),
('DYNPRO', 'Dynemic Products Limited'),
('E2E', 'E2E Networks Limited'),
('EASEMYTRIP', 'Easy Trip Planners Limited'),
('ECLERX', 'eClerx Services Limited'),
('EDELWEISS', 'Edelweiss Financial Services Limited'),
('EICHERMOT', 'Eicher Motors Limited'),
('EIDPARRY', 'EID Parry India Limited'),
('EIFFL', 'Euro India Fresh Foods Limited'),
('EIHAHOTELS', 'EIH Associated Hotels Limited'),
('EIHOTEL', 'EIH Limited'),
('EIMCOELECO', 'Eimco Elecon (India), Limited'),
('EKC', 'Everest Kanto Cylinder Limited'),
('ELDEHSG', 'Eldeco Housing And Industries Limited'),
('ELECON', 'Elecon Engineering Company Limited'),
('ELECTCAST', 'Electrosteel Castings Limited'),
('ELECTHERM', 'Electrotherm (India), Limited'),
('ELGIEQUIP', 'Elgi Equipments Limited'),
('ELGIRUBCO', 'Elgi Rubber Company Limited'),
('ELIN', 'Elin Electronics Limited'),
('EMAMILTD', 'Emami Limited'),
('EMAMIPAP', 'Emami Paper Mills Limited'),
('EMAMIREAL', 'Emami Realty Limited'),
('EMBDL', 'Equinox India Developments Limited'),
('EMCURE', 'Emcure Pharmaceuticals Limited'),
('EMIL', 'Electronics Mart India Limited'),
('EMKAY', 'Emkay Global Financial Services Limited'),
('EMMBI', 'Emmbi Industries Limited'),
```

```
('EMSLIMITED', 'EMS Limited'),
('EMUDHRA', 'eMudhra Limited'),
('ENDURANCE', 'Endurance Technologies Limited'),
('ENERGYDEV', 'Energy Development Company Limited'),
('ENGINERSIN', 'Engineers India Limited'),
('ENIL', 'Entertainment Network (India), Limited'),
('ENTERO', 'Entero Healthcare Solutions Limited'),
('EPACK', 'EPACK Durable Limited'),
('EPIGRAL', 'Epigral Limited'),
('EPL', 'EPL Limited'),
('EQUIPPP', 'Equippp Social Impact Technologies Limited'),
('EQUITASBNK', 'Equitas Small Finance Bank Limited'),
('ERIS', 'Eris Lifesciences Limited'),
('EROSMEDIA', 'Eros International Media Limited'),
('ESABINDIA', 'Esab India Limited'),
('ESAFSFB', 'ESAF Small Finance Bank Limited'),
('ESCORTS', 'Escorts Kubota Limited'),
('ESSARSHPNG', 'Essar Shipping Limited'),
('ESSENTIA', 'Integra Essentia Limited'),
('ESTER', 'Ester Industries Limited'),
('ETHOSLTD', 'Ethos Limited'),
('EUROTEXIND', 'Eurotex Industries and Exports Limited'),
('EVEREADY', 'Eveready Industries India Limited'),
('EVERESTIND', 'Everest Industries Limited'),
('EXCEL', 'Excel Realty N Infra Limited'),
('EXCELINDUS', 'Excel Industries Limited'),
('EXICOM', 'Exicom Tele-Systems Limited'),
('EXIDEIND', 'Exide Industries Limited'),
('EXPLEOSOL', 'Expleo Solutions Limited'),
('EXXARO', 'Exxaro Tiles Limited'),
('FACT', 'Fertilizers and Chemicals Travancore Limited'),
('FAIRCHEMOR', 'Fairchem Organics Limited'),
('FAZE3Q', 'Faze Three Limited'),
('FCL', 'Fineotex Chemical Limited'),
('FCSSOFT', 'FCS Software Solutions Limited'),
('FDC', 'FDC Limited'),
('FEDERALBNK', 'The Federal Bank  Limited'),
('FEDFINA', 'Fedbank Financial Services Limited'),
('FEL', 'Future Enterprises Limited'),
('FELDVR', 'Future Enterprises Limited'),
('FIBERWEB', 'Fiberweb (India), Limited'),
('FIEMIND', 'Fiem Industries Limited'),
```

```
('FILATEX', 'Filatex India Limited'),
('FILATFASH', 'Filatex Fashions Limited'),
('FINCABLES', 'Finolex Cables Limited'),
('FINEORG', 'Fine Organic Industries Limited'),
('FINOPB', 'Fino Payments Bank Limited'),
('FINPIPE', 'Finolex Industries Limited'),
('FIRSTCRY', 'Brainbees Solutions Limited'),
('FIVESTAR', 'Five-Star Business Finance Limited'),
('FLAIR', 'Flair Writing Industries Limited'),
('FLEXITUFF', 'Flexituff Ventures International Limited'),
('FLFL', 'Future Lifestyle Fashions Limited'),
('FLUOROCHEM', 'Gujarat Fluorochemicals Limited'),
('FMGOETZE', 'Federal-Mogul Goetze (India), Limited.'),
('FMNL', 'Future Market Networks Limited'),
('FOCUS', 'Focus Lighting and Fixtures Limited'),
('FOODSIN', 'Foods & Inns Limited'),
('FORCEMOT', 'FORCE MOTORS LTD'),
('FORTIS', 'Fortis Healthcare Limited'),
('FOSECOIND', 'Foseco India Limited'),
('FSL', 'Firstsource Solutions Limited'),
('FUSION', 'Fusion Micro Finance Limited'),
('GABRIEL', 'Gabriel India Limited'),
('GAEL', 'Gujarat Ambuja Exports Limited'),
('GAIL', 'GAIL (India), Limited'),
('GALAXYSURF', 'Galaxy Surfactants Limited'),
('GALLANTT', 'Gallantt Ispat Limited'),
('GANDHAR', 'Gandhar Oil Refinery (India), Limited'),
('GANDHITUBE', 'Gandhi Special Tubes Limited'),
('GANECOS', 'Ganesha Ecosphere Limited'),
('GANESHBE', 'Ganesh Benzoplast Limited'),
('GANESHHOUC', 'Ganesh Housing Corporation Limited'),
('GANGAFORGE', 'Ganga Forging Limited'),
('GANGESSECU', 'Ganges Securities Limited'),
('GARFIBRES', 'Garware Technical Fibres Limited'),
('GATECH', 'GACM Technologies Limited'),
('GATECHDVR', 'GACM Technologies Limited'),
('GATEWAY', 'Gateway Distriparks Limited'),
('GEECEE', 'GeeCee Ventures Limited'),
('GEEKAYWIRE', 'Geekay Wires Limited'),
('GENCON', 'Generic Engineering Construction and Projects Limited'),
('GENESYS', 'Genesys International Corporation Limited'),
('GENSOL', 'Gensol Engineering Limited'),
```

```
('GENUSPAPER', 'Genus Paper & Boards Limited'),
('GENUSPOWER', 'Genus Power Infrastructures Limited'),
('GEOJITFSL', 'Geojit Financial Services Limited'),
('GEPIL', 'GE Power India Limited'),
('GESHIP', 'The Great Eastern Shipping Company Limited'),
('GET&D', 'GE T&D India Limited'),
('GFLLIMITED', 'GFL Limited'),
('GHCL', 'GHCL Limited'),
('GHCLTEXTIL', 'GHCL Textiles Limited'),
('GICHSGFIN', 'GIC Housing Finance Limited'),
('GICRE', 'General Insurance Corporation of India'),
('GILLANDERS', 'Gillanders Arbuthnot & Company Limited'),
('GILLETTE', 'Gillette India Limited'),
('GINNIFILA', 'Ginni Filaments Limited'),
('GIPCL', 'Gujarat Industries Power Company Limited'),
('GKWLIMITED', 'GKW Limited'),
('GLAND', 'Gland Pharma Limited'),
('GLAXO', 'GlaxoSmithKline Pharmaceuticals Limited'),
('GLENMARK', 'Glenmark Pharmaceuticals Limited'),
('GLFL', 'Gujarat Lease Financing Limited'),
('GLOBAL', 'Global Education Limited'),
('GLOBALVECT', 'Global Vectra Helicorp Limited'),
('GLOBE', 'Globe Textiles (India), Limited'),
('GLOBUSSPR', 'Globus Spirits Limited'),
('GLOSTERLTD', 'Gloster Limited'),
('GLS', 'Glenmark Life Sciences Limited'),
('GMBREW', 'GM Breweries Limited'),
('GMDCLTD', 'Gujarat Mineral Development Corporation Limited'),
('GMMPFAUDLR', 'GMM Pfaudler Limited'),
('GMRINFRA', 'GMR Airports Infrastructure Limited'),
('GMRP&UI', 'GMR Power and Urban Infra Limited'),
('GNA', 'GNA Axles Limited'),
('GNFC', 'Gujarat Narmada Valley Fertilizers and Chemicals Limited'),
('GOACARBON', 'Goa Carbon Limited'),
('GOCLCORP', 'GOCL Corporation Limited'),
('GOCOLORS', 'Go Fashion (India), Limited'),
('GODFRYPHLP', 'Godfrey Phillips India Limited'),
('GODHA', 'Godha Cabcon & Insulation Limited'),
('GODIGIT', 'Go Digit General Insurance Limited'),
('GODREJAGRO', 'Godrej Agrovet Limited'),
('GODREJCP', 'Godrej Consumer Products Limited'),
('GODREJIND', 'Godrej Industries Limited'),
```

```
('GODREJPROP', 'Godrej Properties Limited'),
('GOKEX', 'Gokaldas Exports Limited'),
('GOKUL', 'Gokul Refoils and Solvent Limited'),
('GOKULAGRO', 'Gokul Agro Resources Limited'),
('GOLDENTOBC', 'Golden Tobacco Limited'),
('GOLDIAM', 'Goldiam International Limited'),
('GOLDTECH', 'AION-TECH SOLUTIONS LIMITED'),
('GOODLUCK', 'Goodluck India Limited'),
('GOPAL', 'Gopal Snacks Limited'),
('GOYALALUM', 'Goyal Aluminiums Limited'),
('GPIL', 'Godawari Power And Ispat limited'),
('GPPL', 'Gujarat Pipavav Port Limited'),
('GPTHEALTH', 'GPT Healthcare Limited'),
('GPTINFRA', 'GPT Infraprojects Limited'),
('GRANULES', 'Granules India Limited'),
('GRAPHITE', 'Graphite India Limited'),
('GRASIM', 'Grasim Industries Limited'),
('GRAVITA', 'Gravita India Limited'),
('GREAVESCOT', 'Greaves Cotton Limited'),
('GREENLAM', 'Greenlam Industries Limited'),
('GREENPANEL', 'Greenpanel Industries Limited'),
('GREENPLY', 'Greenply Industries Limited'),
('GREENPOWER', 'Orient Green Power Company Limited'),
('GRINDWELL', 'Grindwell Norton Limited'),
('GRINFRA', 'G R Infraprojects Limited'),
('GRMOVER', 'GRM Overseas Limited'),
('GROBTEA', 'The Grob Tea Company Limited'),
('GRPLTD', 'GRP Limited'),
('GRSE', 'Garden Reach Shipbuilders & Engineers Limited'),
('GRWRHITECH', 'Garware Hi-Tech Films Limited'),
('GSFC', 'Gujarat State Fertilizers & Chemicals Limited'),
('GSLSU', 'Global Surfaces Limited'),
('GSPL', 'Gujarat State Petronet Limited'),
('GSS', 'GSS Infotech Limited'),
('GTECJAINX', 'G-TEC JAINX EDUCATION LIMITED'),
('GTL', 'GTL Limited'),
('GTLINFRA', 'GTL Infrastructure Limited'),
('GTPL', 'GTPL Hathway Limited'),
('GUFICBIO', 'Gufic Biosciences Limited'),
('GUJALKALI', 'Gujarat Alkalies and Chemicals Limited'),
('GUJAPOLLO', 'Gujarat Apollo Industries Limited'),
('GUJGASLTD', 'Gujarat Gas Limited'),
```

```
('GUJRAFFIA', 'Gujarat Raffia Industries Limited'),
('GULFOILLUB', 'Gulf Oil Lubricants India Limited'),
('GULFPETRO', 'GP Petroleums Limited'),
('GULPOLY', 'Gulshan Polyols Limited'),
('GVKPIL', 'GVK Power & Infrastructure Limited'),
('GVPTECH', 'GVP Infotech Limited'),
('HAL', 'Hindustan Aeronautics Limited'),
('HAPPSTMNDS', 'Happiest Minds Technologies Limited'),
('HAPPYFORGE', 'Happy Forgings Limited'),
('HARDWYN', 'Hardwyn India Limited'),
('HARIOMPIPE', 'Hariom Pipe Industries Limited'),
('HARRMALAYA', 'Harrisons  Malayalam Limited'),
('HARSHA', 'Harsha Engineers International Limited'),
('HATHWAY', 'Hathway Cable & Datacom Limited'),
('HATSUN', 'Hatsun Agro Product Limited'),
('HAVELLS', 'Havells India Limited'),
('HAVISHA', 'Sri Havisha Hospitality and Infrastructure Limited'),
('HBLPOWER', 'HBL Power Systems Limited'),
('HBSL', 'HB Stockholdings Limited'),
('HCC', 'Hindustan Construction Company Limited'),
('HCG', 'Healthcare Global Enterprises Limited'),
('HCL-INSYS', 'HCL Infosystems Limited'),
('HCLTECH', 'HCL Technologies Limited'),
('HDFCAMC', 'HDFC Asset Management Company Limited'),
('HDFCBANK', 'HDFC Bank Limited'),
('HDFCLIFE', 'HDFC Life Insurance Company Limited'),
('HDIL', 'Housing Development and Infrastructure Limited'),
('HEADSUP', 'Heads UP Ventures Limited'),
('HECPROJECT', 'HEC Infra Projects Limited'),
('HEG', 'HEG Limited'),
('HEIDELBERG', 'HeidelbergCement India Limited'),
('HEMIPROP', 'Hemisphere Properties India Limited'),
('HERANBA', 'Heranba Industries Limited'),
('HERCULES', 'Hercules Hoists Limited'),
('HERITGFOOD', 'Heritage Foods Limited'),
('HEROMOTOCO', 'Hero MotoCorp Limited'),
('HESTERBIO', 'Hester Biosciences Limited'),
('HEUBACHIND', 'Heubach Colorants India Limited'),
('HEXATRADEX', 'Hexa Tradex Limited'),
('HFCL', 'HFCL Limited'),
('HGINFRA', 'H.G. Infra Engineering Limited'),
('HGS', 'Hinduja Global Solutions Limited'),
```

```
('HIKAL', 'Hikal Limited'),
('HIL', 'HIL Limited'),
('HILTON', 'Hilton Metal Forging Limited'),
('HIMATSEIDE', 'Himatsingka Seide Limited'),
('HINDALCO', 'Hindalco Industries Limited'),
('HINDCOMPOS', 'Hindustan Composites Limited'),
('HINDCON', 'Hindcon Chemicals Limited'),
('HINDCOPPER', 'Hindustan Copper Limited'),
('HINDMOTORS', 'Hindustan Motors Limited'),
('HINDOILEXP', 'Hindustan Oil Exploration Company Limited'),
('HINDPETRO', 'Hindustan Petroleum Corporation Limited'),
('HINDUNILVR', 'Hindustan Unilever Limited'),
('HINDWAREAP', 'Hindware Home Innovation Limited'),
('HINDZINC', 'Hindustan Zinc Limited'),
('HIRECT', 'Hind Rectifiers Limited'),
('HISARMETAL', 'Hisar Metal Industries Limited'),
('HITECH', 'Hi-Tech Pipes Limited'),
('HITECHCORP', 'Hitech Corporation Limited'),
('HITECHGEAR', 'The Hi-Tech Gears Limited'),
('HLEGLAS', 'HLE Glascoat Limited'),
('HLVLTD', 'HLV LIMITED'),
('HMAAGRO', 'HMA Agro Industries Limited'),
('HMT', 'HMT Limited'),
('HMVL', 'Hindustan Media Ventures Limited'),
('HNDFDS', 'Hindustan Foods Limited'),
('HOMEFIRST', 'Home First Finance Company India Limited'),
('HONASA', 'Honasa Consumer Limited'),
('HONAUT', 'Honeywell Automation India Limited'),
('HONDAPOWER', 'Honda India Power Products Limited'),
('HOVS', 'HOV Services Limited'),
('HPAL', 'HP Adhesives Limited'),
('HPIL', 'Hindprakash Industries Limited'),
('HPL', 'HPL Electric & Power Limited'),
('HSCL', 'Himadri Speciality Chemical Limited'),
('HTMEDIA', 'HT Media Limited'),
('HUBTOWN', 'Hubtown Limited'),
('HUDCO', 'Housing & Urban Development Corporation Limited'),
('HUHTAMAKI', 'Huhtamaki India Limited'),
('HYBRIDFIN', 'Hybrid Financial Services Limited'),
('ICDSLTD', 'ICDS Limited'),
('ICEMAKE', 'Ice Make Refrigeration Limited'),
('ICICIBANK', 'ICICI Bank Limited'),
```

```
('ICICIGI', 'ICICI Lombard General Insurance Company Limited'),
('ICICIPRULI', 'ICICI Prudential Life Insurance Company Limited'),
('ICIL', 'Indo Count Industries Limited'),
('ICRA', 'ICRA Limited'),
('IDBI', 'IDBI Bank Limited'),
('IDEA', 'Vodafone Idea Limited'),
('IDEAFORGE', 'Ideaforge Technology Limited'),
('IDFC', 'IDFC Limited'),
('IDFCFIRSTB', 'IDFC First Bank Limited'),
('IEL', 'Indiabulls Enterprises Limited'),
('IEX', 'Indian Energy Exchange Limited'),
('IFBAGRO', 'IFB Agro Industries Limited'),
('IFBIND', 'IFB Industries Limited'),
('IFCI', 'IFCI Limited'),
('IFGLEXPOR', 'IFGL Refractories Limited'),
('IGARASHI', 'Igarashi Motors India Limited'),
('IGL', 'Indraprastha Gas Limited'),
('IGPL', 'IG Petrochemicals Limited'),
('IIFL', 'IIFL Finance Limited'),
('IIFLSEC', 'IIFL Securities Limited'),
('IITL', 'Industrial Investment Trust Limited'),
('IKIO', 'IKIO Lighting Limited'),
('IL&FSENGG', 'IL&FS Engineering and Construction Company Limited'),
('IL&FSTRANS', 'IL&FS Transportation Networks Limited'),
('IMAGICAA', 'Imagicaaworld Entertainment Limited'),
('IMFA', 'Indian Metals & Ferro Alloys Limited'),
('IMPAL', 'India Motor Parts and Accessories Limited'),
('IMPEXFERRO', 'Impex Ferro Tech Limited'),
('INCREDIBLE', 'INCREDIBLE INDUSTRIES LIMITED'),
('INDBANK', 'Indbank Merchant Banking Services Limited'),
('INDGN', 'Indegene Limited'),
('INDHOTEL', 'The Indian Hotels Company Limited'),
('INDIACEM', 'The India Cements Limited'),
('INDIAGLYCO', 'India Glycols Limited'),
('INDIAMART', 'Indiamart Intermesh Limited'),
('INDIANB', 'Indian Bank'),
('INDIANCARD', 'Indian Card Clothing Company Limited'),
('INDIANHUME', 'Indian Hume Pipe Company Limited'),
('INDIASHLTR', 'India Shelter Finance Corporation Limited'),
('INDIGO', 'InterGlobe Aviation Limited'),
('INDIGOPNTS', 'Indigo Paints Limited'),
('INDNIPPON', 'India Nippon Electricals Limited'),
```

```
('INDOAMIN', 'Indo Amines Limited'),
('INDOBORAX', 'Indo Borax & Chemicals Limited'),
('INDOCO', 'Indoco Remedies Limited'),
('INDORAMA', 'Indo Rama Synthetics (India), Limited'),
('INDOSTAR', 'IndoStar Capital Finance Limited'),
('INDOTECH', 'Indo Tech Transformers Limited'),
('INDOTHAI', 'Indo Thai Securities Limited'),
('INDOWIND', 'Indowind Energy Limited'),
('INDRAMEDCO', 'Indraprastha Medical Corporation Limited'),
('INDSWFTLAB', 'Ind-Swift Laboratories Limited'),
('INDSWFTLTD', 'Ind-Swift Limited'),
('INDTERRAIN', 'Indian Terrain Fashions Limited'),
('INDUSINDBK', 'IndusInd Bank Limited'),
('INDUSTOWER', 'Indus Towers Limited'),
('INFIBEAM', 'Infibeam Avenues Limited'),
('INFOBEAN', 'InfoBeans Technologies Limited'),
('INFOMEDIA', 'Infomedia Press Limited'),
('INFY', 'Infosys Limited'),
('INGERRAND', 'Ingersoll Rand (India), Limited'),
('INNOVACAP', 'Innova Captab Limited'),
('INOXGREEN', 'Inox Green Energy Services Limited'),
('INOXINDIA', 'INOX India Limited'),
('INOXWIND', 'Inox Wind Limited'),
('INSECTICID', 'Insecticides (India), Limited'),
('INSPIRISYS', 'Inspirisys Solutions Limited'),
('INTELLECT', 'Intellect Design Arena Limited'),
('INTENTECH', 'Intense Technologies Limited'),
('INTLCONV', 'International Conveyors Limited'),
('INVENTURE', 'Inventure Growth & Securities Limited'),
('IOB', 'Indian Overseas Bank'),
('IOC', 'Indian Oil Corporation Limited'),
('IOLCP', 'IOL Chemicals and Pharmaceuticals Limited'),
('IONEXCHANG', 'ION Exchange (India), Limited'),
('IPCALAB', 'IPCA Laboratories Limited'),
('IPL', 'India Pesticides Limited'),
('IRB', 'IRB Infrastructure Developers Limited'),
('IRCON', 'Ircon International Limited'),
('IRCTC', 'Indian Railway Catering And Tourism Corporation Limited'),
('IREDA', 'Indian Renewable Energy Development Agency Limited'),
('IRFC', 'Indian Railway Finance Corporation Limited'),
('IRIS', 'Iris Business Services Limited'),
('IRISDOREME', 'Iris Clothings Limited'),
```

```
('IRMENERGY', 'IRM Energy Limited'),
('ISEC', 'ICICI Securities Limited'),
('ISFT', 'Intrasoft Technologies Limited'),
('ISGEC', 'Isgec Heavy Engineering Limited'),
('ITC', 'ITC Limited'),
('ITDC', 'India Tourism Development Corporation Limited'),
('ITDCEM', 'ITD Cementation India Limited'),
('ITI', 'ITI Limited'),
('IVC', 'IL&FS Investment Managers Limited'),
('IVP', 'IVP Limited'),
('IWEL', 'Inox Wind Energy Limited'),
('IXIGO', 'Le Travenues Technology Limited'),
('IZMO', 'IZMO Limited'),
('J&KBANK', 'The Jammu & Kashmir Bank Limited'),
('JAGRAN', 'Jagran Prakashan Limited'),
('JAGSNPHARM', 'Jagsonpal Pharmaceuticals Limited'),
('JAIBALAJI', 'Jai Balaji Industries Limited'),
('JAICORPLTD', 'Jai Corp Limited'),
('JAIPURKURT', 'Nandani Creation Limited'),
('JAMNAAUTO', 'Jamna Auto Industries Limited'),
('JASH', 'Jash Engineering Limited'),
('JAYAGROGN', 'Jayant Agro Organics Limited'),
('JAYBARMARU', 'Jay Bharat Maruti Limited'),
('JAYNECOIND', 'Jayaswal Neco Industries Limited'),
('JAYSREETEA', 'Jayshree Tea & Industries Limited'),
('JBCHEPHARM', 'JB Chemicals & Pharmaceuticals Limited'),
('JBMA', 'JBM Auto Limited'),
('JCHAC', 'Johnson Controls - Hitachi Air Conditioning India Limited'),
('JETAIRWAYS', 'Jet Airways (India), Limited'),
('JETFREIGHT', 'Jet Freight Logistics Limited'),
('JGCHEM', 'J.G.Chemicals Limited'),
('JHS', 'JHS Svendgaard Laboratories Limited'),
('JINDALPHOT', 'Jindal Photo Limited'),
('JINDALPOLY', 'Jindal Poly Films Limited'),
('JINDALSAW', 'Jindal Saw Limited'),
('JINDALSTEL', 'Jindal Steel & Power Limited'),
('JINDRILL', 'Jindal Drilling And Industries Limited'),
('JINDWORLD', 'Jindal Worldwide Limited'),
('JIOFIN', 'Jio Financial Services Limited'),
('JISLDVREQS', 'Jain Irrigation Systems Limited'),
('JISLJALEQS', 'Jain Irrigation Systems Limited'),
('JITFINFRA', 'JITF Infralogistics Limited'),
```

```
('JKCEMENT', 'JK Cement Limited'),
('JKIL', 'J.Kumar Infraprojects Limited'),
('JKLAKSHMI', 'JK Lakshmi Cement Limited'),
('JKPAPER', 'JK Paper Limited'),
('JKTYRE', 'JK Tyre & Industries Limited'),
('JLHL', 'Jupiter Life Line Hospitals Limited'),
('JMA', 'Jullundur Motor Agency (Delhi), Limited'),
('JMFINANCIL', 'JM Financial Limited'),
('JNKINDIA', 'JNK India Limited'),
('JOCIL', 'Jocil Limited'),
('JPOLYINVST', 'Jindal Poly Investment and Finance Company Limited'),
('JPPOWER', 'Jaiprakash Power Ventures Limited'),
('JSFB', 'Jana Small Finance Bank Limited'),
('JSL', 'Jindal Stainless Limited'),
('JSWENERGY', 'JSW Energy Limited'),
('JSWHL', 'JSW Holdings Limited'),
('JSWINFRA', 'JSW Infrastructure Limited'),
('JSWSTEEL', 'JSW Steel Limited'),
('JTEKTINDIA', 'Jtekt India Limited'),
('JTLIND', 'JTL INDUSTRIES LIMITED'),
('JUBLFOOD', 'Jubilant Foodworks Limited'),
('JUBLINDS', 'Jubilant Industries Limited'),
('JUBLINGREA', 'Jubilant Ingrevia Limited'),
('JUBLPHARMA', 'Jubilant Pharmova Limited'),
('JUNIPER', 'Juniper Hotels Limited'),
('JUSTDIAL', 'Just Dial Limited'),
('JWL', 'Jupiter Wagons Limited'),
('JYOTHYLAB', 'Jyothy Labs Limited'),
('JYOTICNC', 'Jyoti CNC Automation Limited'),
('JYOTISTRUC', 'Jyoti Structures Limited'),
('KABRAEXTRU', 'Kabra Extrusion Technik Limited'),
('KAJARIACER', 'Kajaria Ceramics Limited'),
('KAKATCEM', 'Kakatiya Cement Sugar & Industries Limited'),
('KALAMANDIR', 'Sai Silks (Kalamandir), Limited'),
('KALYANI', 'Kalyani Commercials Limited'),
('KALYANIFRG', 'Kalyani Forge Limited'),
('KALYANKJIL', 'Kalyan Jewellers India Limited'),
('KAMATHOTEL', 'Kamat Hotels (I), Limited'),
('KAMDHENU', 'Kamdhenu Limited'),
('KAMOPAINTS', 'Kamdhenu Ventures Limited'),
('KANANIIND', 'Kanani Industries Limited'),
('KANORICHEM', 'Kanoria Chemicals & Industries Limited'),
```

```
('KANPRPLA', 'Kanpur Plastipack Limited'),
('KANSAINER', 'Kansai Nerolac Paints Limited'),
('KAPSTON', 'Kapston Services Limited'),
('KARMAENG', 'Karma Energy Limited'),
('KARURVYSYA', 'Karur Vysya Bank Limited'),
('KAUSHALYA', 'Kaushalya Infrastructure Development Corporation Limited'),
('KAVVERITEL', 'Kavveri Telecom Products Limited'),
('KAYA', 'Kaya Limited'),
('KAYNES', 'Kaynes Technology India Limited'),
('KBCGLOBAL', 'KBC Global Limited'),
('KCP', 'KCP Limited'),
('KCPSUGIND', 'KCP Sugar and Industries Corporation Limited'),
('KDDL', 'KDDL Limited'),
('KEC', 'KEC International Limited'),
('KECL', 'Kirloskar Electric Company Limited'),
('KEEPLEARN', 'DSJ Keep Learning Limited'),
('KEI', 'KEI Industries Limited'),
('KELLTONTEC', 'Kellton Tech Solutions Limited'),
('KERNEX', 'Kernex Microsystems (India), Limited'),
('KESORAMIND', 'Kesoram Industries Limited'),
('KEYFINSERV', 'Keynote Financial Services Limited'),
('KFINTECH', 'Kfin Technologies Limited'),
('KHADIM', 'Khadim India Limited'),
('KHAICHEM', 'Khaitan Chemicals & Fertilizers Limited'),
('KHAITANLTD', 'Khaitan (India), Limited'),
('KHANDSE', 'Khandwala Securities Limited'),
('KICL', 'Kalyani Investment Company Limited'),
('KILITCH', 'Kilitch Drugs (India), Limited'),
('KIMS', 'Krishna Institute of Medical Sciences Limited'),
('KINGFA', 'Kingfa Science & Technology (India), Limited'),
('KIOCL', 'KIOCL Limited'),
('KIRIINDUS', 'Kiri Industries Limited'),
('KIRLOSBROS', 'Kirloskar Brothers Limited'),
('KIRLOSENG', 'Kirloskar Oil Engines Limited'),
('KIRLOSIND', 'Kirloskar Industries Limited'),
('KIRLPNU', 'Kirloskar Pneumatic Company Limited'),
('KITEX', 'Kitex Garments Limited'),
('KKCL', 'Kewal Kiran Clothing Limited'),
('KMSUGAR', 'K.M.Sugar Mills Limited'),
('KNRCON', 'KNR Constructions Limited'),
('KOHINOOR', 'Kohinoor Foods Limited'),
('KOKUYOCMLN', 'Kokuyo Camlin Limited'),
```

```
('KOLTEPATIL', 'Kolte - Patil Developers Limited'),
('KOPRAN', 'Kopran Limited'),
('KOTAKBANK', 'Kotak Mahindra Bank Limited'),
('KOTARISUG', 'Kothari Sugars And Chemicals Limited'),
('KOTHARIPET', 'Kothari Petrochemicals Limited'),
('KOTHARIPRO', 'Kothari Products Limited'),
('KPIGREEN', 'KPI Green Energy Limited'),
('KPIL', 'Kalpataru Projects International Limited'),
('KPITTECH', 'KPIT Technologies Limited'),
('KPRMILL', 'K.P.R. Mill Limited'),
('KRBL', 'KRBL Limited'),
('KREBSBIO', 'Krebs Biochemicals and Industries Limited'),
('KRIDHANINF', 'Kridhan Infra Limited'),
('KRISHANA', 'Krishana Phoschem Limited'),
('KRITI', 'Kriti Industries (India), Limited'),
('KRITIKA', 'Kritika Wires Limited'),
('KRITINUT', 'Kriti Nutrients Limited'),
('KRONOX', 'Kronox Lab Sciences Limited'),
('KRSNAA', 'Krsnaa Diagnostics Limited'),
('KRYSTAL', 'Krystal Integrated Services Limited'),
('KSB', 'Ksb Limited'),
('KSCL', 'Kaveri Seed Company Limited'),
('KSHITIJPOL', 'Kshitij Polyline Limited'),
('KSL', 'Kalyani Steels Limited'),
('KSOLVES', 'Ksolves India Limited'),
('KTKBANK', 'The Karnataka Bank Limited'),
('KUANTUM', 'Kuantum Papers Limited'),
('LAGNAM', 'Lagnam Spintex Limited'),
('LAL', 'Lorenzini Apparels Limited'),
('LALPATHLAB', 'Dr. Lal Path Labs Ltd.'),
('LAMBODHARA', 'Lambodhara Textiles Limited'),
('LANCORHOL', 'Lancor Holdings Limited'),
('LANDMARK', 'Landmark Cars Limited'),
('LAOPALA', 'La Opala RG Limited'),
('LASA', 'Lasa Supergenerics Limited'),
('LATENTVIEW', 'Latent View Analytics Limited'),
('LATTEYS', 'Latteys Industries Limited'),
('LAURUSLABS', 'Laurus Labs Limited'),
('LAXMICOT', 'Laxmi Cotspin Limited'),
('LAXMIMACH', 'Lakshmi Machine Works Limited'),
('LCCINFOTEC', 'LCC Infotech Limited'),
('LEMONTREE', 'Lemon Tree Hotels Limited'),
```

```
('LEXUS', 'Lexus Granito (India), Limited'),
('LFIC', 'Lakshmi Finance & Industrial Corporation Limited'),
('LGBBROSLTD', 'LG Balakrishnan & Bros Limited'),
('LGHL', 'Laxmi Goldorna House Limited'),
('LIBAS', 'Libas Consumer Products Limited'),
('LIBERTSHOE', 'Liberty Shoes Limited'),
('LICHSGFIN', 'LIC Housing Finance Limited'),
('LICI', 'Life Insurance Corporation Of India'),
('LIKHITHA', 'Likhitha Infrastructure Limited'),
('LINC', 'Linc Limited'),
('LINCOLN', 'Lincoln Pharmaceuticals Limited'),
('LINDEINDIA', 'Linde India Limited'),
('LLOYDSENGG', 'LLOYDS ENGINEERING WORKS LIMITED'),
('LLOYDSME', 'Lloyds Metals And Energy Limited'),
('LODHA', 'Macrotech Developers Limited'),
('LOKESHMACH', 'Lokesh Machines Limited'),
('LORDSCHLO', 'Lords Chloro Alkali Limited'),
('LOTUSEYE', 'Lotus Eye Hospital and Institute Limited'),
('LOVABLE', 'Lovable Lingerie Limited'),
('LOYALTEX', 'Loyal Textile Mills Limited'),
('LPDC', 'Landmark Property Development Company Limited'),
('LT', 'Larsen & Toubro Limited'),
('LTF', 'L&T Finance Limited'),
('LTFOODS', 'LT Foods Limited'),
('LTIM', 'LTIMindtree Limited'),
('LTTS', 'L&T Technology Services Limited'),
('LUMAXIND', 'Lumax Industries Limited'),
('LUMAXTECH', 'Lumax Auto Technologies Limited'),
('LUPIN', 'Lupin Limited'),
('LUXIND', 'Lux Industries Limited'),
('LXCHEM', 'Laxmi Organic Industries Limited'),
('LYKALABS', 'Lyka Labs Limited'),
('LYPSAGEMS', 'Lypsa Gems & Jewellery Limited'),
('M&M', 'Mahindra & Mahindra Limited'),
('M&MFIN', 'Mahindra & Mahindra Financial Services Limited'),
('MAANALU', 'Maan Aluminium Limited'),
('MACPOWER', 'Macpower CNC Machines Limited'),
('MADHAV', 'Madhav Marbles and Granites Limited'),
('MADHUCON', 'Madhucon Projects Limited'),
('MADRASFERT', 'Madras Fertilizers Limited'),
('MAGADSUGAR', 'Magadh Sugar & Energy Limited'),
('MAGNUM', 'Magnum Ventures Limited'),
```

```
('MAHABANK', 'Bank of Maharashtra'),
('MAHAPEXLTD', 'Maha Rashtra Apex Corporation Limited'),
('MAHASTEEL', 'Mahamaya Steel Industries Limited'),
('MAHEPC', 'Mahindra EPC Irrigation Limited'),
('MAHESHWARI', 'Maheshwari Logistics Limited'),
('MAHLIFE', 'Mahindra Lifespace Developers Limited'),
('MAHLOG', 'Mahindra Logistics Limited'),
('MAHSCOOTER', 'Maharashtra Scooters Limited'),
('MAHSEAMLES', 'Maharashtra Seamless Limited'),
('MAITHANALL', 'Maithan Alloys Limited'),
('MALLCOM', 'Mallcom (India), Limited'),
('MALUPAPER', 'Malu Paper Mills Limited'),
('MANAKALUCO', 'Manaksia Aluminium Company Limited'),
('MANAKCOAT', 'Manaksia Coated Metals & Industries Limited'),
('MANAKSIA', 'Manaksia Limited'),
('MANAKSTEEL', 'Manaksia Steels Limited'),
('MANALIPETC', 'Manali Petrochemicals Limited'),
('MANAPPURAM', 'Manappuram Finance Limited'),
('MANCREDIT', 'Mangal Credit and Fincorp Limited'),
('MANGALAM', 'Mangalam Drugs And Organics Limited'),
('MANGCHEFER', 'Mangalore Chemicals & Fertilizers Limited'),
('MANGLMCEM', 'Mangalam Cement Limited'),
('MANINDS', 'Man Industries (India), Limited'),
('MANINFRA', 'Man Infraconstruction Limited'),
('MANKIND', 'Mankind Pharma Limited'),
('MANOMAY', 'Manomay Tex India Limited'),
('MANORAMA', 'Manorama Industries Limited'),
('MANORG', 'Mangalam Organics Limited'),
('MANUGRAPH', 'Manugraph India Limited'),
('MANYAVAR', 'Vedant Fashions Limited'),
('MAPMYINDIA', 'C.E. Info Systems Limited'),
('MARALOVER', 'Maral Overseas Limited'),
('MARATHON', 'Marathon Nextgen Realty Limited'),
('MARICO', 'Marico Limited'),
('MARINE', 'Marine Electricals (India), Limited'),
('MARKSANS', 'Marksans Pharma Limited'),
('MARSHALL', 'Marshall Machines Limited'),
('MARUTI', 'Maruti Suzuki India Limited'),
('MASFIN', 'MAS Financial Services Limited'),
('MASKINVEST', 'Mask Investments Limited'),
('MASTEK', 'Mastek Limited'),
('MATRIMONY', 'Matrimony.Com Limited'),
```

```
('MAWANASUG', 'Mawana Sugars Limited'),
('MAXESTATES', 'Max Estates Limited'),
('MAXHEALTH', 'Max Healthcare Institute Limited'),
('MAXIND', 'Max India Limited'),
('MAYURUNIQ', 'Mayur Uniquoters Ltd'),
('MAZDA', 'Mazda Limited'),
('MAZDOCK', 'Mazagon Dock Shipbuilders Limited'),
('MBAPL', 'Madhya Bharat Agro Products Limited'),
('MBECL', 'Mcnally Bharat Engineering Company Limited'),
('MBLINFRA', 'MBL Infrastructure Limited'),
('MCL', 'Madhav Copper Limited'),
('MCLEODRUSS', 'Mcleod Russel India Limited'),
('MCX', 'Multi Commodity Exchange of India Limited'),
('MEDANTA', 'Global Health Limited'),
('MEDIASSIST', 'Medi Assist Healthcare Services Limited'),
('MEDICAMEQ', 'Medicamen Biotech Limited'),
('MEDICO', 'Medico Remedies Limited'),
('MEDPLUS', 'Medplus Health Services Limited'),
('MEGASOFT', 'Megasoft Limited'),
('MEGASTAR', 'Megastar Foods Limited'),
('MENONBE', 'Menon Bearings Limited'),
('METROBRAND', 'Metro Brands Limited'),
('METROPOLIS', 'Metropolis Healthcare Limited'),
('MFSL', 'Max Financial Services Limited'),
('MGEL', 'Mangalam Global Enterprise Limited'),
('MGL', 'Mahanagar Gas Limited'),
('MHLXMIRU', 'Mahalaxmi Rubtech Limited'),
('MHRIL', 'Mahindra Holidays & Resorts India Limited'),
('MICEL', 'MIC Electronics Limited'),
('MIDHANI', 'Mishra Dhatu Nigam Limited'),
('MINDACORP', 'Minda Corporation Limited'),
('MINDTECK', 'Mindteck (India), Limited'),
('MIRCELECTR', 'MIRC Electronics Limited'),
('MIRZAINT', 'Mirza International Limited'),
('MITCON', 'MITCON Consultancy & Engineering Services Limited'),
('MITTAL', 'Mittal Life Style Limited'),
('MKPL', 'M K Proteins Limited'),
('MMFL', 'MM Forgings Limited'),
('MMP', 'MMP Industries Limited'),
('MMTC', 'MMTC Limited'),
('MODIRUBBER', 'Modi Rubber Limited'),
('MODISONLTD', 'MODISON LIMITED'),
```

```
('MODTHREAD', 'Modern Threads (India), Limited'),
('MOHITIND', 'Mohit Industries Limited'),
('MOIL', 'MOIL Limited'),
('MOKSH', 'Moksh Ornaments Limited'),
('MOL', 'Meghmani Organics Limited'),
('MOLDTECH', 'Mold-Tek Technologies Limited'),
('MOLDTKPAC', 'Mold-Tek Packaging Limited'),
('MONARCH', 'Monarch Networth Capital Limited'),
('MONTECARLO', 'Monte Carlo Fashions Limited'),
('MORARJEE', 'Morarjee Textiles Limited'),
('MOREPENLAB', 'Morepen Laboratories Limited'),
('MOTHERSON', 'Samvardhana Motherson International Limited'),
('MOTILALOFS', 'Motilal Oswal Financial Services Limited'),
('MOTISONS', 'Motisons Jewellers Limited'),
('MOTOGENFIN', 'The Motor & General Finance Limited'),
('MPHASIS', 'MphasiS Limited'),
('MPSLTD', 'MPS Limited'),
('MRF', 'MRF Limited'),
('MRO-TEK', 'MRO-TEK Realty Limited'),
('MRPL', 'Mangalore Refinery and Petrochemicals Limited'),
('MSPL', 'MSP Steel & Power Limited'),
('MSTCLTD', 'Mstc Limited'),
('MSUMI', 'Motherson Sumi Wiring India Limited'),
('MTARTECH', 'Mtar Technologies Limited'),
('MTEDUCARE', 'MT Educare Limited'),
('MTNL', 'Mahanagar Telephone Nigam Limited'),
('MUFIN', 'Mufin Green Finance Limited'),
('MUFTI', 'Credo Brands Marketing Limited'),
('MUKANDLTD', 'Mukand Limited'),
('MUKKA', 'Mukka Proteins Limited'),
('MUKTAARTS', 'Mukta Arts Limited'),
('MUNJALAU', 'Munjal Auto Industries Limited'),
('MUNJALSHOW', 'Munjal Showa Limited'),
('MURUDCERA', 'Murudeshwar Ceramics Limited'),
('MUTHOOTCAP', 'Muthoot Capital Services Limited'),
('MUTHOOTFIN', 'Muthoot Finance Limited'),
('MUTHOOTMF', 'Muthoot Microfin Limited'),
('MVGJL', 'Manoj Vaibhav Gems N Jewellers Limited'),
('NACLIND', 'NACL Industries Limited'),
('NAGAFERT', 'Nagarjuna Fertilizers and Chemicals Limited'),
('NAGREEKCAP', 'Nagreeka Capital & Infrastructure Limited'),
('NAGREEKEXP', 'Nagreeka Exports Limited'),
```

```
('NAHARCAP', 'Nahar Capital and Financial Services Limited'),
('NAHARINDUS', 'Nahar Industrial Enterprises Limited'),
('NAHARPOLY', 'Nahar Poly Films Limited'),
('NAHARSPING', 'Nahar Spinning Mills Limited'),
('NAM-INDIA', 'Nippon Life India Asset Management Limited'),
('NARMADA', 'Narmada Agrobase Limited'),
('NATCOPHARM', 'Natco Pharma Limited'),
('NATHBIOGEN', 'Nath Bio-Genes (India), Limited'),
('NATIONALUM', 'National Aluminium Company Limited'),
('NAUKRI', 'Info Edge (India), Limited'),
('NAVA', 'NAVA LIMITED'),
('NAVINFLUOR', 'Navin Fluorine International Limited'),
('NAVKARCORP', 'Navkar Corporation Limited'),
('NAVNETEDUL', 'Navneet Education Limited'),
('NAZARA', 'Nazara Technologies Limited'),
('NBCC', 'NBCC (India), Limited'),
('NBIFIN', 'N. B. I. Industrial Finance Company Limited'),
('NCC', 'NCC Limited'),
('NCLIND', 'NCL Industries Limited'),
('NDGL', 'Naga Dhunseri Group Limited'),
('NDL', 'Nandan Denim Limited'),
('NDLVENTURE', 'NDL Ventures Limited'),
('NDRAUTO', 'Ndr Auto Components Limited'),
('NDTV', 'New Delhi Television Limited'),
('NECCLTD', 'North Eastern Carrying Corporation Limited'),
('NECLIFE', 'Nectar Lifesciences Limited'),
('NELCAST', 'Nelcast Limited'),
('NELCO', 'NELCO Limited'),
('NEOGEN', 'Neogen Chemicals Limited'),
('NESCO', 'Nesco Limited'),
('NESTLEIND', 'Nestle India Limited'),
('NETWEB', 'Netweb Technologies India Limited'),
('NETWORK18', 'Network18 Media & Investments Limited'),
('NEULANDLAB', 'Neuland Laboratories Limited'),
('NEWGEN', 'Newgen Software Technologies Limited'),
('NEXTMEDIA', 'Next Mediaworks Limited'),
('NFL', 'National Fertilizers Limited'),
('NGIL', 'Nakoda Group of Industries Limited'),
('NGLFINE', 'NGL Fine-Chem Limited'),
('NH', 'Narayana Hrudayalaya Ltd.'),
('NHPC', 'NHPC Limited'),
('NIACL', 'The New India Assurance Company Limited'),
```

```
('NIBL', 'NRB Industrial Bearings Limited'),
('NIITLTD', 'NIIT Limited'),
('NIITMTS', 'NIIT Learning Systems Limited'),
('NILAINFRA', 'Nila Infrastructures Limited'),
('NILASPACES', 'Nila Spaces Limited'),
('NILKAMAL', 'Nilkamal Limited'),
('NINSYS', 'NINtec Systems Limited'),
('NIPPOBATRY', 'Indo-National Limited'),
('NIRAJ', 'Niraj Cement Structurals Limited'),
('NIRAJISPAT', 'Niraj Ispat Industries Limited'),
('NITCO', 'Nitco Limited'),
('NITINSPIN', 'Nitin Spinners Limited'),
('NITIRAJ', 'Nitiraj Engineers Limited'),
('NKIND', 'NK Industries Limited'),
('NLCINDIA', 'NLC India Limited'),
('NMDC', 'NMDC Limited'),
('NOCIL', 'NOCIL Limited'),
('NOIDATOLL', 'Noida Toll Bridge Company Limited'),
('NORBTEAEXP', 'Norben Tea & Exports Limited'),
('NOVAAGRI', 'Nova Agritech Limited'),
('NRAIL', 'N R Agarwal Industries Limited'),
('NRBBEARING', 'NRB Bearing Limited'),
('NRL', 'Nupur Recyclers Limited'),
('NSIL', 'Nalwa Sons Investments Limited'),
('NSLNISP', 'NMDC Steel Limited'),
('NTPC', 'NTPC Limited'),
('NUCLEUS', 'Nucleus Software Exports Limited'),
('NURECA', 'Nureca Limited'),
('NUVAMA', 'Nuvama Wealth Management Limited'),
('NUVOCO', 'Nuvoco Vistas Corporation Limited'),
('NYKAA', 'FSN E-Commerce Ventures Limited'),
('OAL', 'Oriental Aromatics Limited'),
('OBCL', 'Orissa Bengal Carrier Limited'),
('OBEROIRLTY', 'Oberoi Realty Limited'),
('OCCL', 'Oriental Carbon & Chemicals Limited'),
('OFSS', 'Oracle Financial Services Software Limited'),
('OIL', 'Oil India Limited'),
('OILCOUNTUB', 'Oil Country Tubular Limited'),
('OLAELEC', 'Ola Electric Mobility Limited'),
('OLECTRA', 'Olectra Greentech Limited'),
('OMAXAUTO', 'Omax Autos Limited'),
('OMAXE', 'Omaxe Limited'),
```

```
('OMINFRAL', 'OM INFRA LIMITED'),
('ONELIFECAP', 'Onelife Capital Advisors Limited'),
('ONEPOINT', 'One Point One Solutions Limited'),
('ONGC', 'Oil & Natural Gas Corporation Limited'),
('ONMOBILE', 'OnMobile Global Limited'),
('ONWARDTEC', 'Onward Technologies Limited'),
('OPTIEMUS', 'Optiemus Infracom Limited'),
('ORBTEXP', 'Orbit Exports Limited'),
('ORCHPHARMA', 'Orchid Pharma Limited'),
('ORICONENT', 'Oricon Enterprises Limited'),
('ORIENTALTL', 'Oriental Trimex Limited'),
('ORIENTBELL', 'Orient Bell Limited'),
('ORIENTCEM', 'Orient Cement Limited'),
('ORIENTCER', 'ORIENT CERATECH LIMITED'),
('ORIENTELEC', 'Orient Electric Limited'),
('ORIENTHOT', 'Oriental Hotels Limited'),
('ORIENTLTD', 'Orient Press Limited'),
('ORIENTPPR', 'Orient Paper & Industries Limited'),
('ORISSAMINE', 'The Orissa Minerals Development Company Limited'),
('ORTEL', 'Ortel Communications Limited'),
('ORTINLAB', 'Ortin Laboratories Limited'),
('OSIAHYPER', 'Osia Hyper Retail Limited'),
('OSWALAGRO', 'Oswal Agro Mills Limited'),
('OSWALGREEN', 'Oswal Greentech Limited'),
('OSWALSEEDS', 'ShreeOswal Seeds And Chemicals Limited'),
('PAGEIND', 'Page Industries Limited'),
('PAISALO', 'Paisalo Digital Limited'),
('PAKKA', 'PAKKA LIMITED'),
('PALASHSECU', 'Palash Securities Limited'),
('PALREDTEC', 'Palred Technologies Limited'),
('PANACEABIO', 'Panacea Biotec Limited'),
('PANACHE', 'Panache Digilife Limited'),
('PANAMAPET', 'Panama Petrochem Limited'),
('PANSARI', 'Pansari Developers Limited'),
('PAR', 'Par Drugs And Chemicals Limited'),
('PARACABLES', 'Paramount Communications Limited'),
('PARADEEP', 'Paradeep Phosphates Limited'),
('PARAGMILK', 'Parag Milk Foods Limited'),
('PARAS', 'Paras Defence and Space Technologies Limited'),
('PARASPETRO', 'Paras Petrofils Limited'),
('PARKHOTELS', 'Apeejay Surrendra Park Hotels Limited'),
('PARSVNATH', 'Parsvnath Developers Limited'),
```

```
('PASUPTAC', 'Pasupati Acrylon Limited'),
('PATANJALI', 'Patanjali Foods Limited'),
('PATELENG', 'Patel Engineering Limited'),
('PATINTLOG', 'Patel Integrated Logistics Limited'),
('PAVNAIND', 'Pavna Industries Limited'),
('PAYTM', 'One 97 Communications Limited'),
('PCBL', 'PCBL LIMITED'),
('PCJEWELLER', 'PC Jeweller Limited'),
('PDMJEPAPER', 'Pudumjee Paper Products Limited'),
('PDSL', 'PDS Limited'),
('PEARLPOLY', 'Pearl Polymers Limited'),
('PEL', 'Piramal Enterprises Limited'),
('PENIND', 'Pennar Industries Limited'),
('PENINLAND', 'Peninsula Land Limited'),
('PERSISTENT', 'Persistent Systems Limited'),
('PETRONET', 'Petronet LNG Limited'),
('PFC', 'Power Finance Corporation Limited'),
('PFIZER', 'Pfizer Limited'),
('PFOCUS', 'Prime Focus Limited'),
('PFS', 'PTC India Financial Services Limited'),
('PGEL', 'PG Electroplast Limited'),
('PGHH', 'Procter & Gamble Hygiene and Health Care Limited'),
('PGHL', 'Procter & Gamble Health Limited'),
('PGIL', 'Pearl Global Industries Limited'),
('PHOENIXLTD', 'The Phoenix Mills Limited'),
('PIDILITIND', 'Pidilite Industries Limited'),
('PIGL', 'Power & Instrumentation (Gujarat), Limited'),
('PIIND', 'PI Industries Limited'),
('PILANIINVS', 'Pilani Investment and Industries Corporation Limited'),
('PILITA', 'PIL ITALICA LIFESTYLE LIMITED'),
('PIONEEREMB', 'Pioneer Embroideries Limited'),
('PITTIENG', 'Pitti Engineering Limited'),
('PIXTRANS', 'Pix Transmissions Limited'),
('PKTEA', 'The Peria Karamalai Tea & Produce Company Limited'),
('PLASTIBLEN', 'Plastiblends India Limited'),
('PLATIND', 'Platinum Industries Limited'),
('PLAZACABLE', 'Plaza Wires Limited'),
('PNB', 'Punjab National Bank'),
('PNBGILTS', 'PNB Gilts Limited'),
('PNBHOUSING', 'PNB Housing Finance Limited'),
('PNC', 'Pritish Nandy Communications Limited'),
('PNCINFRA', 'PNC Infratech Limited'),
```

```
('POCL', 'Pondy Oxides & Chemicals Limited'),
('PODDARHOUS', 'Poddar Housing and Development Limited'),
('PODDARMENT', 'Poddar Pigments Limited'),
('POKARNA', 'Pokarna Limited'),
('POLICYBZR', 'PB Fintech Limited'),
('POLYCAB', 'Polycab India Limited'),
('POLYMED', 'Poly Medicure Limited'),
('POLYPLEX', 'Polyplex Corporation Limited'),
('PONNIERODE', 'Ponni Sugars (Erode), Limited'),
('POONAWALLA', 'Poonawalla Fincorp Limited'),
('POWERGRID', 'Power Grid Corporation of India Limited'),
('POWERINDIA', 'Hitachi Energy India Limited'),
('POWERMECH', 'Power Mech Projects Limited'),
('PPAP', 'PPAP Automotive Limited'),
('PPL', 'Prakash Pipes Limited'),
('PPLPHARMA', 'Piramal Pharma Limited'),
('PRAENG', 'Prajay Engineers Syndicate Limited'),
('PRAJIND', 'Praj Industries Limited'),
('PRAKASH', 'Prakash Industries Limited'),
('PRAKASHSTL', 'Prakash Steelage Limited'),
('PRAXIS', 'Praxis Home Retail Limited'),
('PRECAM', 'Precision Camshafts Limited'),
('PRECOT', 'Precot Limited'),
('PRECWIRE', 'Precision Wires India Limited'),
('PREMEXPLN', 'Premier Explosives Limited'),
('PREMIERPOL', 'Premier Polyfilm Limited'),
('PRESTIGE', 'Prestige Estates Projects Limited'),
('PRICOLLTD', 'Pricol Limited'),
('PRIMESECU', 'Prime Securities Limited'),
('PRINCEPIPE', 'Prince Pipes And Fittings Limited'),
('PRITI', 'Priti International Limited'),
('PRITIKAUTO', 'Pritika Auto Industries Limited'),
('PRIVISCL', 'Privi Speciality Chemicals Limited'),
('PROZONER', 'Prozone Realty Limited'),
('PRSMJOHNSN', 'Prism Johnson Limited'),
('PRUDENT', 'Prudent Corporate Advisory Services Limited'),
('PRUDMOULI', 'Prudential Sugar Corporation Limited'),
('PSB', 'Punjab & Sind Bank'),
('PSPPROJECT', 'PSP Projects Limited'),
('PTC', 'PTC India Limited'),
('PTCIL', 'PTC Industries Limited'),
('PTL', 'PTL Enterprises Limited'),
```

```
('PUNJABCHEM', 'Punjab Chemicals & Crop Protection Limited'),
('PURVA', 'Puravankara Limited'),
('PVP', 'PVP Ventures Limited'),
('PVRINOX', 'PVR INOX Limited'),
('PVSL', 'Popular Vehicles and Services Limited'),
('PYRAMID', 'Pyramid Technoplast Limited'),
('QUESS', 'Quess Corp Limited'),
('QUICKHEAL', 'Quick Heal Technologies Limited'),
('RACE', 'Race Eco Chain Limited'),
('RADHIKAJWE', 'Radhika Jeweltech Limited'),
('RADIANTCMS', 'Radiant Cash Management Services Limited'),
('RADICO', 'Radico Khaitan Limited'),
('RADIOCITY', 'Music Broadcast Limited'),
('RAILTEL', 'Railtel Corporation Of India Limited'),
('RAIN', 'Rain Industries Limited'),
('RAINBOW', 'Rainbow Childrens Medicare Limited'),
('RAJESHEXPO', 'Rajesh Exports Limited'),
('RAJMET', 'Rajnandini Metal Limited'),
('RAJRATAN', 'Rajratan Global Wire Limited'),
('RAJRILTD', 'Raj Rayon Industries Limited'),
('RAJSREESUG', 'Rajshree Sugars & Chemicals Limited'),
('RAJTV', 'Raj Television Network Limited'),
('RALLIS', 'Rallis India Limited'),
('RAMANEWS', 'Shree Rama Newsprint Limited'),
('RAMAPHO', 'Rama Phosphates Limited'),
('RAMASTEEL', 'Rama Steel Tubes Limited'),
('RAMCOCEM', 'The Ramco Cements Limited'),
('RAMCOIND', 'Ramco Industries Limited'),
('RAMCOSYS', 'Ramco Systems Limited'),
('RAMKY', 'Ramky Infrastructure Limited'),
('RAMRAT', 'Ram Ratna Wires Limited'),
('RANASUG', 'Rana Sugars Limited'),
('RANEENGINE', 'Rane Engine Valve Limited'),
('RANEHOLDIN', 'Rane Holdings Limited'),
('RATEGAIN', 'Rategain Travel Technologies Limited'),
('RATNAMANI', 'Ratnamani Metals & Tubes Limited'),
('RATNAVEER', 'Ratnaveer Precision Engineering Limited'),
('RAYMOND', 'Raymond Limited'),
('RBA', 'Restaurant Brands Asia Limited'),
('RBL', 'Rane Brake Lining Limited'),
('RBLBANK', 'RBL Bank Limited'),
('RBZJEWEL', 'RBZ Jewellers Limited'),
```

```
('RCF', 'Rashtriya Chemicals and Fertilizers Limited'),
('RECLTD', 'REC Limited'),
('REDINGTON', 'Redington Limited'),
('REDTAPE', 'Redtape Limited'),
('REFEX', 'Refex Industries Limited'),
('REGENCERAM', 'Regency Ceramics Limited'),
('RELAXO', 'Relaxo Footwears Limited'),
('RELCHEMQ', 'Reliance Chemotex Industries Limited'),
('RELIABLE', 'Reliable Data Services Limited'),
('RELIANCE', 'Reliance Industries Limited'),
('RELIGARE', 'Religare Enterprises Limited'),
('RELINFRA', 'Reliance Infrastructure Limited'),
('RELTD', 'Ravindra Energy Limited'),
('REMSONSIND', 'Remsons Industries Limited'),
('RENUKA', 'Shree Renuka Sugars Limited'),
('REPCOHOME', 'Repco Home Finance Limited'),
('REPL', 'Rudrabhishek Enterprises Limited'),
('REPRO', 'Repro India Limited'),
('RESPONIND', 'Responsive Industries Limited'),
('RETAIL', 'JHS Svendgaard Retail Ventures Limited'),
('RGL', 'Renaissance Global Limited'),
('RHFL', 'Reliance Home Finance Limited'),
('RHIM', 'RHI MAGNESITA INDIA LIMITED'),
('RHL', 'Robust Hotels Limited'),
('RICOAUTO', 'Rico Auto Industries Limited'),
('RIIL', 'Reliance Industrial Infrastructure Limited'),
('RISHABH', 'Rishabh Instruments Limited'),
('RITCO', 'Ritco Logistics Limited'),
('RITES', 'RITES Limited'),
('RKDL', 'Ravi Kumar Distilleries Limited'),
('RKEC', 'RKEC Projects Limited'),
('RKFORGE', 'Ramkrishna Forgings Limited'),
('RKSWAMY', 'R K Swamy Limited'),
('RML', 'Rane (Madras), Limited'),
('ROHLTD', 'Royal Orchid Hotels Limited'),
('ROLEXRINGS', 'Rolex Rings Limited'),
('ROLLT', 'Rollatainers Limited'),
('ROLTA', 'Rolta India Limited'),
('ROML', 'Raj Oil Mills Limited'),
('ROSSARI', 'Rossari Biotech Limited'),
('ROSSELLIND', 'Rossell India Limited'),
('ROTO', 'Roto Pumps Limited'),
```

```
('ROUTE', 'ROUTE MOBILE LIMITED'),
('RPEL', 'Raghav Productivity Enhancers Limited'),
('RPGLIFE', 'RPG Life Sciences Limited'),
('RPOWER', 'Reliance Power Limited'),
('RPPINFRA', 'R.P.P. Infra Projects Limited'),
('RPPL', 'Rajshree Polypack Limited'),
('RPSGVENT', 'RPSG VENTURES LIMITED'),
('RPTECH', 'Rashi Peripherals Limited'),
('RRKABEL', 'R R Kabel Limited'),
('RSSOFTWARE', 'R. S. Software (India), Limited'),
('RSWM', 'RSWM Limited'),
('RSYSTEMS', 'R Systems International Limited'),
('RTNINDIA', 'RattanIndia Enterprises Limited'),
('RTNPOWER', 'RattanIndia Power Limited'),
('RUBFILA', 'Rubfila International Limited'),
('RUBYMILLS', 'The Ruby Mills Limited'),
('RUCHINFRA', 'Ruchi Infrastructure Limited'),
('RUCHIRA', 'Ruchira Papers Limited'),
('RUPA', 'Rupa & Company Limited'),
('RUSHIL', 'Rushil Decor Limited'),
('RUSTOMJEE', 'Keystone Realtors Limited'),
('RVHL', 'Ravinder Heights Limited'),
('RVNL', 'Rail Vikas Nigam Limited'),
('S&SPOWER', 'S&S Power Switchgears Limited'),
('SABEVENTS', 'Sab Events & Governance Now Media Limited'),
('SABTNL', 'Sri Adhikari Brothers Television Network Limited'),
('SADBHAV', 'Sadbhav Engineering Limited'),
('SADBHIN', 'Sadbhav Infrastructure Project Limited'),
('SADHNANIQ', 'Sadhana Nitrochem Limited'),
('SAFARI', 'Safari Industries (India), Limited'),
('SAGARDEEP', 'Sagardeep Alloys Limited'),
('SAGCEM', 'Sagar Cements Limited'),
('SAH', 'Sah Polymers Limited'),
('SAHYADRI', 'Sahyadri Industries Limited'),
('SAIL', 'Steel Authority of India Limited'),
('SAKAR', 'Sakar Healthcare Limited'),
('SAKHTISUG', 'Sakthi Sugars Limited'),
('SAKSOFT', 'Saksoft Limited'),
('SAKUMA', 'Sakuma Exports Limited'),
('SALASAR', 'Salasar Techno Engineering Limited'),
('SALONA', 'Salona Cotspin Limited'),
('SALSTEEL', 'S.A.L. Steel Limited'),
```

```
('SALZERELEC', 'Salzer Electronics Limited'),
('SAMBHAAV', 'Sambhaav Media Limited'),
('SAMHI', 'Samhi Hotels Limited'),
('SAMMAANCAP', 'Sammaan Capital Limited'),
('SAMPANN', 'Sampann Utpadan India Limited'),
('SANCO', 'Sanco Industries Limited'),
('SANDESH', 'The Sandesh Limited'),
('SANDHAR', 'Sandhar Technologies Limited'),
('SANDUMA', 'Sandur Manganese & Iron Ores Limited'),
('SANGAMIND', 'Sangam (India), Limited'),
('SANGHIIND', 'Sanghi Industries Limited'),
('SANGHVIMOV', 'Sanghvi Movers Limited'),
('SANGINITA', 'Sanginita Chemicals Limited'),
('SANOFI', 'Sanofi India Limited'),
('SANSERA', 'Sansera Engineering Limited'),
('SANSTAR', 'Sanstar Limited'),
('SANWARIA', 'Sanwaria Consumer Limited'),
('SAPPHIRE', 'Sapphire Foods India Limited'),
('SARDAEN', 'Sarda Energy & Minerals Limited'),
('SAREGAMA', 'Saregama India Limited'),
('SARLAPOLY', 'Sarla Performance Fibers Limited'),
('SARVESHWAR', 'Sarveshwar Foods Limited'),
('SASKEN', 'Sasken Technologies Limited'),
('SASTASUNDR', 'Sastasundar Ventures Limited'),
('SATIA', 'Satia Industries Limited'),
('SATIN', 'Satin Creditcare Network Limited'),
('SATINDLTD', 'Sat Industries Limited'),
('SAURASHCEM', 'Saurashtra Cement Limited'),
('SBC', 'SBC Exports Limited'),
('SBCL', 'Shivalik Bimetal Controls Limited'),
('SBFC', 'SBFC Finance Limited'),
('SBGLP', 'Suratwwala Business Group Limited'),
('SBICARD', 'SBI Cards and Payment Services Limited'),
('SBILIFE', 'SBI Life Insurance Company Limited'),
('SBIN', 'State Bank of India'),
('SCHAEFFLER', 'Schaeffler India Limited'),
('SCHAND', 'S Chand And Company Limited'),
('SCHNEIDER', 'Schneider Electric Infrastructure Limited'),
('SCI', 'Shipping Corporation Of India Limited'),
('SCILAL', 'Shipping Corporation of India Land and Assets Limited'),
('SCPL', 'Sheetal Cool Products Limited'),
('SDBL', 'Som Distilleries & Breweries Limited'),
```

```
('SEAMECLTD', 'Seamec Limited'),
('SECMARK', 'SecMark Consultancy Limited'),
('SECURCRED', 'SecUR Credentials Limited'),
('SECURKLOUD', 'SECUREKLOUD TECHNOLOGIES LIMITED'),
('SEJALLTD', 'Sejal Glass Limited'),
('SELAN', 'Selan Exploration Technology Limited'),
('SELMC', 'SEL Manufacturing Company Limited'),
('SEMAC', 'SEMAC CONSULTANTS LIMITED'),
('SENCO', 'Senco Gold Limited'),
('SEPC', 'SEPC Limited'),
('SEQUENT', 'Sequent Scientific Limited'),
('SERVOTECH', 'Servotech Power Systems Limited'),
('SESHAPAPER', 'Seshasayee Paper and Boards Limited'),
('SETCO', 'Setco Automotive Limited'),
('SETUINFRA', 'Setubandhan Infrastructure Limited'),
('SFL', 'Sheela Foam Limited'),
('SGIL', 'Synergy Green Industries Limited'),
('SGL', 'STL Global Limited'),
('SHAH', 'Shah Metacorp Limited'),
('SHAHALLOYS', 'Shah Alloys Limited'),
('SHAILY', 'Shaily Engineering Plastics Limited'),
('SHAKTIPUMP', 'Shakti Pumps (India), Limited'),
('SHALBY', 'Shalby Limited'),
('SHALPAINTS', 'Shalimar Paints Limited'),
('SHANKARA', 'Shankara Building Products Limited'),
('SHANTI', 'Shanti Overseas (India), Limited'),
('SHANTIGEAR', 'Shanthi Gears Limited'),
('SHARDACROP', 'Sharda Cropchem Limited'),
('SHARDAMOTR', 'Sharda Motor Industries Limited'),
('SHAREINDIA', 'Share India Securities Limited'),
('SHEKHAWATI', 'Shekhawati Industries Limited'),
('SHEMAROO', 'Shemaroo Entertainment Limited'),
('SHILPAMED', 'Shilpa Medicare Limited'),
('SHIVALIK', 'Shivalik Rasayan Limited'),
('SHIVAMAUTO', 'Shivam Autotech Limited'),
('SHIVAMILLS', 'Shiva Mills Limited'),
('SHIVATEX', 'Shiva Texyarn Limited'),
('SHK', 'S H Kelkar and Company Limited'),
('SHOPERSTOP', 'Shoppers Stop Limited'),
('SHRADHA', 'Shradha Infraprojects Limited'),
('SHREDIGCEM', 'Shree Digvijay Cement Co.Ltd'),
('SHREECEM', 'SHREE CEMENT LIMITED'),
```

```
('SHREEPUSHK', 'Shree Pushkar Chemicals & Fertilisers Limited'),
('SHREERAMA', 'Shree Rama Multi-Tech Limited'),
('SHRENIK', 'Shrenik Limited'),
('SHREYANIND', 'Shreyans Industries Limited'),
('SHREYAS', 'Shreyas Shipping & Logistics Limited'),
('SHRIPISTON', 'Shriram Pistons & Rings Limited'),
('SHRIRAMFIN', 'Shriram Finance Limited'),
('SHRIRAMPPS', 'Shriram Properties Limited'),
('SHYAMCENT', 'Shyam Century Ferrous Limited'),
('SHYAMMETL', 'Shyam Metalics and Energy Limited'),
('SHYAMTEL', 'Shyam Telecom Limited'),
('SIEMENS', 'Siemens Limited'),
('SIGACHI', 'Sigachi Industries Limited'),
('SIGIND', 'Signet Industries Limited'),
('SIGMA', 'Sigma Solve Limited'),
('SIGNATURE', 'Signatureglobal (India), Limited'),
('SIGNPOST', 'Signpost India Limited'),
('SIKKO', 'Sikko Industries Limited'),
('SIL', 'Standard Industries Limited'),
('SILGO', 'Silgo Retail Limited'),
('SILINV', 'SIL Investments Limited'),
('SILLYMONKS', 'Silly Monks Entertainment Limited'),
('SILVERTUC', 'Silver Touch Technologies Limited'),
('SIMBHALS', 'Simbhaoli Sugars Limited'),
('SIMPLEXINF', 'Simplex Infrastructures Limited'),
('SINCLAIR', 'Sinclairs Hotels Limited'),
('SINDHUTRAD', 'Sindhu Trade Links Limited'),
('SINTERCOM', 'Sintercom India Limited'),
('SIRCA', 'Sirca Paints India Limited'),
('SIS', 'SIS LIMITED'),
('SITINET', 'Siti Networks Limited'),
('SIYSIL', 'Siyaram Silk Mills Limited'),
('SJS', 'S.J.S. Enterprises Limited'),
('SJVN', 'SJVN Limited'),
('SKFINDIA', 'SKF India Limited'),
('SKIPPER', 'Skipper Limited'),
('SKMEGGPROD', 'SKM Egg Products Export (India), Limited'),
('SKYGOLD', 'Sky Gold Limited'),
('SMARTLINK', 'Smartlink Holdings Limited'),
('SMCGLOBAL', 'SMC Global Securities Limited'),
('SMLISUZU', 'SML Isuzu Limited'),
('SMLT', 'Sarthak Metals Limited'),
```

```
('SMSLIFE', 'SMS Lifesciences India Limited'),
('SMSPHARMA', 'SMS Pharmaceuticals Limited'),
('SNOWMAN', 'Snowman Logistics Limited'),
('SOBHA', 'Sobha Limited'),
('SOFTTECH', 'Softtech Engineers Limited'),
('SOLARA', 'Solara Active Pharma Sciences Limited'),
('SOLARINDS', 'Solar Industries India Limited'),
('SOMANYCERA', 'Somany Ceramics Limited'),
('SOMATEX', 'Soma Textiles & Industries Limited'),
('SOMICONVEY', 'Somi Conveyor Beltings Limited'),
('SONACOMS', 'Sona BLW Precision Forgings Limited'),
('SONAMLTD', 'SONAM LIMITED'),
('SONATSOFTW', 'Sonata Software Limited'),
('SOTL', 'Savita Oil Technologies Limited'),
('SOUTHBANK', 'The South Indian Bank Limited'),
('SOUTHWEST', 'South West Pinnacle Exploration Limited'),
('SPAL', 'S. P. Apparels Limited'),
('SPANDANA', 'Spandana Sphoorty Financial Limited'),
('SPARC', 'Sun Pharma Advanced Research Company Limited'),
('SPCENET', 'Spacenet Enterprises India Limited'),
('SPECIALITY', 'Speciality Restaurants Limited'),
('SPENCERS', "Spencer's Retail Limited"),
('SPIC', 'Southern Petrochemicals Industries Corporation  Limited'),
('SPLIL', 'SPL Industries Limited'),
('SPLPETRO', 'Supreme Petrochem Limited'),
('SPMLINFRA', 'SPML Infra Limited'),
('SPORTKING', 'Sportking India Limited'),
('SREEL', 'Sreeleathers Limited'),
('SRF', 'SRF Limited'),
('SRGHFL', 'SRG Housing Finance Limited'),
('SRHHYPOLTD', 'Sree Rayalaseema Hi-Strength Hypo Limited'),
('SRM', 'SRM Contractors Limited'),
('SRPL', 'Shree Ram Proteins Limited'),
('SSDL', 'Saraswati Saree Depot Limited'),
('SSWL', 'Steel Strips Wheels Limited'),
('STANLEY', 'Stanley Lifestyles Limited'),
('STAR', 'Strides Pharma Science Limited'),
('STARCEMENT', 'Star Cement Limited'),
('STARHEALTH', 'Star Health and Allied Insurance Company Limited'),
('STARPAPER', 'Star Paper Mills Limited'),
('STARTECK', 'Starteck Finance Limited'),
('STCINDIA', 'The State Trading Corporation of India Limited'),
```

```
('STEELCAS', 'Steelcast Limited'),
('STEELCITY', 'Steel City Securities Limited'),
('STEELXIND', 'STEEL EXCHANGE INDIA LIMITED'),
('STEL', 'Stel Holdings Limited'),
('STERTOOLS', 'Sterling Tools Limited'),
('STLTECH', 'Sterlite Technologies Limited'),
('STOVEKRAFT', 'Stove Kraft Limited'),
('STYLAMIND', 'Stylam Industries Limited'),
('STYRENIX', 'Styrenix Performance Materials Limited'),
('SUBEXLTD', 'Subex Limited'),
('SUBROS', 'Subros Limited'),
('SUDARSCHEM', 'Sudarshan Chemical Industries Limited'),
('SUKHJITS', 'Sukhjit Starch & Chemicals Limited'),
('SULA', 'Sula Vineyards Limited'),
('SUMEETINDS', 'Sumeet Industries Limited'),
('SUMICHEM', 'Sumitomo Chemical India Limited'),
('SUMIT', 'Sumit Woods Limited'),
('SUMMITSEC', 'Summit Securities Limited'),
('SUNCLAY', 'Sundaram Clayton Limited'),
('SUNDARAM', 'Sundaram Multi Pap Limited'),
('SUNDARMFIN', 'Sundaram Finance Limited'),
('SUNDARMHLD', 'Sundaram Finance Holdings Limited'),
('SUNDRMBRAK', 'Sundaram Brake Linings Limited'),
('SUNDRMFAST', 'Sundram Fasteners Limited'),
('SUNFLAG', 'Sunflag Iron And Steel Company Limited'),
('SUNPHARMA', 'Sun Pharmaceutical Industries Limited'),
('SUNTECK', 'Sunteck Realty Limited'),
('SUNTV', 'Sun TV Network Limited'),
('SUPERHOUSE', 'Superhouse Limited'),
('SUPERSPIN', 'Super Spinning Mills Limited'),
('SUPRAJIT', 'Suprajit Engineering Limited'),
('SUPREMEENG', 'Supreme Engineering Limited'),
('SUPREMEIND', 'Supreme Industries Limited'),
('SUPREMEINF', 'Supreme Infrastructure India Limited'),
('SUPRIYA', 'Supriya Lifescience Limited'),
('SURAJEST', 'Suraj Estate Developers Limited'),
('SURANASOL', 'Surana Solar Limited'),
('SURANAT&P', 'Surana Telecom and Power Limited'),
('SURYALAXMI', 'Suryalakshmi Cotton Mills Limited'),
('SURYAROSNI', 'Surya Roshni Limited'),
('SURYODAY', 'Suryoday Small Finance Bank Limited'),
('SUTLEJTEX', 'Sutlej Textiles and Industries Limited'),
```

```
('SUULD', 'Suumaya Industries Limited'),
('SUVEN', 'Suven Life Sciences Limited'),
('SUVENPHAR', 'Suven Pharmaceuticals Limited'),
('SUVIDHAA', 'Suvidhaa Infoserve Limited'),
('SUYOG', 'Suyog Telematics Limited'),
('SUZLON', 'Suzlon Energy Limited'),
('SVLL', 'Shree Vasu Logistics Limited'),
('SVPGLOB', 'SVP GLOBAL TEXTILES LIMITED'),
('SWANENERGY', 'Swan Energy Limited'),
('SWARAJENG', 'Swaraj Engines Limited'),
('SWELECTES', 'Swelect Energy Systems Limited'),
('SWSOLAR', 'Sterling and Wilson Renewable Energy Limited'),
('SYMPHONY', 'Symphony Limited'),
('SYNCOMF', 'Syncom Formulations (India), Limited'),
('SYNGENE', 'Syngene International Limited'),
('SYRMA', 'Syrma SGS Technology Limited'),
('TAINWALCHM', 'Tainwala Chemical and Plastic (I), Limited'),
('TAJGVK', 'Taj GVK Hotels & Resorts Limited'),
('TAKE', 'Take Solutions Limited'),
('TALBROAUTO', 'Talbros Automotive Components Limited'),
('TANLA', 'Tanla Platforms Limited'),
('TARACHAND', 'Tara Chand InfraLogistic Solutions Limited'),
('TARAPUR', 'Tarapur Transformers Limited'),
('TARC', 'Anant Raj Global Limited'),
('TARMAT', 'Tarmat Limited'),
('TARSONS', 'Tarsons Products Limited'),
('TASTYBITE', 'Tasty Bite Eatables Limited'),
('TATACHEM', 'Tata Chemicals Limited'),
('TATACOMM', 'Tata Communications Limited'),
('TATACONSUM', 'TATA CONSUMER PRODUCTS LIMITED'),
('TATAELXSI', 'Tata Elxsi Limited'),
('TATAINVEST', 'Tata Investment Corporation Limited'),
('TATAMOTORS', 'Tata Motors Limited'),
('TATAMTRDVR', 'Tata Motors Limited'),
('TATAPOWER', 'Tata Power Company Limited'),
('TATASTEEL', 'Tata Steel Limited'),
('TATATECH', 'Tata Technologies Limited'),
('TATVA', 'Tatva Chintan Pharma Chem Limited'),
('TBOTEK', 'TBO Tek Limited'),
('TBZ', 'Tribhovandas Bhimji Zaveri Limited'),
('TCI', 'Transport Corporation of India Limited'),
('TCIEXP', 'TCI Express Limited'),
```

```
('TCIFINANCE', 'TCI Finance Limited'),
('TCLCONS', 'Tantia Constructions Limited'),
('TCNSBRANDS', 'TCNS Clothing Co. Limited'),
('TCPLPACK', 'TCPL Packaging Limited'),
('TCS', 'Tata Consultancy Services Limited'),
('TDPOWERSYS', 'TD Power Systems Limited'),
('TEAMLEASE', 'Teamlease Services Limited'),
('TECHIN', 'Techindia Nirman Limited'),
('TECHM', 'Tech Mahindra Limited'),
('TECHNOE', 'Techno Electric & Engineering Company Limited'),
('TECILCHEM', 'TECIL Chemicals and Hydro Power Limited'),
('TEGA', 'Tega Industries Limited'),
('TEJASNET', 'Tejas Networks Limited'),
('TEMBO', 'Tembo Global Industries Limited'),
('TERASOFT', 'Tera Software Limited'),
('TEXINFRA', 'Texmaco Infrastructure & Holdings Limited'),
('TEXMOPIPES', 'Texmo Pipes and Products Limited'),
('TEXRAIL', 'Texmaco Rail & Engineering Limited'),
('TFCILTD', 'Tourism Finance Corporation of India Limited'),
('TFL', 'Transwarranty Finance Limited'),
('TGBHOTELS', 'TGB Banquets And Hotels Limited'),
('THANGAMAYL', 'Thangamayil Jewellery Limited'),
('THEINVEST', 'The Investment Trust Of India Limited'),
('THEJO', 'Thejo Engineering Limited'),
('THEMISMED', 'Themis Medicare Limited'),
('THERMAX', 'Thermax Limited'),
('THOMASCOOK', 'Thomas Cook  (India),  Limited'),
('THOMASCOTT', 'Thomas Scott (India), Limited'),
('THYROCARE', 'Thyrocare Technologies Limited'),
('TI', 'Tilaknagar Industries Limited'),
('TIDEWATER', 'Tide Water Oil Company (India), Limited'),
('TIIL', 'Technocraft Industries (India), Limited'),
('TIINDIA', 'Tube Investments of India Limited'),
('TIJARIA', 'Tijaria Polypipes Limited'),
('TIL', 'TIL Limited'),
('TIMESGTY', 'Times Guaranty Limited'),
('TIMETECHNO', 'Time Technoplast Limited'),
('TIMKEN', 'Timken India Limited'),
('TIPSFILMS', 'Tips Films Limited'),
('TIPSINDLTD', 'TIPS Industries Limited'),
('TIRUMALCHM', 'Thirumalai Chemicals Limited'),
('TIRUPATIFL', 'Tirupati Forge Limited'),
```

```
('TITAGARH', 'TITAGARH RAIL SYSTEMS LIMITED'),
('TITAN', 'Titan Company Limited'),
('TMB', 'Tamilnad Mercantile Bank Limited'),
('TNPETRO', 'Tamilnadu PetroProducts Limited'),
('TNPL', 'Tamil Nadu Newsprint & Papers Limited'),
('TNTELE', 'Tamilnadu Telecommunication Limited'),
('TOKYOPLAST', 'Tokyo Plast International Limited'),
('TORNTPHARM', 'Torrent Pharmaceuticals Limited'),
('TORNTPOWER', 'Torrent Power Limited'),
('TOTAL', 'Total Transport Systems Limited'),
('TOUCHWOOD', 'Touchwood Entertainment Limited'),
('TPHQ', 'Teamo Productions HQ Limited'),
('TPLPLASTEH', 'TPL Plastech Limited'),
('TRACXN', 'Tracxn Technologies Limited'),
('TREEHOUSE', 'Tree House Education & Accessories Limited'),
('TREJHARA', 'TREJHARA SOLUTIONS LIMITED'),
('TREL', 'Transindia Real Estate Limited'),
('TRENT', 'Trent Limited'),
('TRF', 'TRF Limited'),
('TRIDENT', 'Trident Limited'),
('TRIGYN', 'Trigyn Technologies Limited'),
('TRIL', 'Transformers And Rectifiers (India), Limited'),
('TRITURBINE', 'Triveni Turbine Limited'),
('TRIVENI', 'Triveni Engineering & Industries Limited'),
('TRU', 'TruCap Finance Limited'),
('TTKHLTCARE', 'TTK Healthcare Limited'),
('TTKPRESTIG', 'TTK Prestige Limited'),
('TTL', 'T T Limited'),
('TTML', 'Tata Teleservices (Maharashtra), Limited'),
('TV18BRDCST', 'TV18 Broadcast Limited'),
('TVSELECT', 'TVS Electronics Limited'),
('TVSHLTD', 'TVS Holdings Limited'),
('TVSMOTOR', 'TVS Motor Company Limited'),
('TVSSCS', 'TVS Supply Chain Solutions Limited'),
('TVSSRICHAK', 'TVS Srichakra Limited'),
('TVTODAY', 'TV Today Network Limited'),
('TVVISION', 'TV Vision Limited'),
('UBL', 'United Breweries Limited'),
('UCAL', 'UCAL LIMITED'),
('UCOBANK', 'UCO Bank'),
('UDAICEMENT', 'Udaipur Cement Works Limited'),
('UDS', 'Updater Services Limited'),
```

```
('UFLEX', 'UFLEX Limited'),
('UFO', 'UFO Moviez India Limited'),
('UGARSUGAR', 'The Ugar Sugar Works Limited'),
('UGROCAP', 'Ugro Capital Limited'),
('UJJIVANSFB', 'Ujjivan Small Finance Bank Limited'),
('ULTRACEMCO', 'UltraTech Cement Limited'),
('UMAEXPORTS', 'Uma Exports Limited'),
('UMANGDAIRY', 'Umang Dairies Limited'),
('UMESLTD', 'Usha Martin Education & Solutions Limited'),
('UNICHEMLAB', 'Unichem Laboratories Limited'),
('UNIDT', 'United Drilling Tools Limited'),
('UNIECOM', 'Unicommerce Esolutions Limited'),
('UNIENTER', 'Uniphos Enterprises Limited'),
('UNIINFO', 'Uniinfo Telecom Services Limited'),
('UNIONBANK', 'Union Bank of India'),
('UNIPARTS', 'Uniparts India Limited'),
('UNITDSPR', 'United Spirits Limited'),
('UNITECH', 'Unitech Limited'),
('UNITEDPOLY', 'United Polyfab Gujarat Limited'),
('UNITEDTEA', 'The United Nilgiri Tea Estates Company Limited'),
('UNIVASTU', 'Univastu India Limited'),
('UNIVCABLES', 'Universal Cables Limited'),
('UNIVPHOTO', 'Universus Photo Imagings Limited'),
('UNOMINDA', 'UNO Minda Limited'),
('UPL', 'UPL Limited'),
('URAVI', 'Uravi T and Wedge Lamps Limited'),
('URJA', 'Urja Global Limited'),
('USHAMART', 'Usha Martin Limited'),
('USK', 'Udayshivakumar Infra Limited'),
('UTIAMC', 'UTI Asset Management Company Limited'),
('UTKARSHBNK', 'Utkarsh Small Finance Bank Limited'),
('UTTAMSUGAR', 'Uttam Sugar Mills Limited'),
('V2RETAIL', 'V2 Retail Limited'),
('VADILALIND', 'Vadilal Industries Limited'),
('VAIBHAVGBL', 'Vaibhav Global Limited'),
('VAISHALI', 'Vaishali Pharma Limited'),
('VAKRANGEE', 'Vakrangee Limited'),
('VALIANTLAB', 'Valiant Laboratories Limited'),
('VALIANTORG', 'Valiant Organics Limited'),
('VARDHACRLC', 'Vardhman Acrylics Limited'),
('VARDMNPOLY', 'Vardhman Polytex Limited'),
('VARROC', 'Varroc Engineering Limited'),
```

```
('VASCONEQ', 'Vascon Engineers Limited'),
('VASWANI', 'Vaswani Industries Limited'),
('VBL', 'Varun Beverages Limited'),
('VEDL', 'Vedanta Limited'),
('VENKEYS', "Venky's (India), Limited"),
('VENUSPIPES', 'Venus Pipes & Tubes Limited'),
('VENUSREM', 'Venus Remedies Limited'),
('VERANDA', 'Veranda Learning Solutions Limited'),
('VERTOZ', 'Vertoz Limited'),
('VESUVIUS', 'Vesuvius India Limited'),
('VETO', 'Veto Switchgears And Cables Limited'),
('VGUARD', 'V-Guard Industries Limited'),
('VHL', 'Vardhman Holdings Limited'),
('VHLTD', 'Viceroy Hotels Limited'),
('VIDHIING', 'Vidhi Specialty Food Ingredients Limited'),
('VIJAYA', 'Vijaya Diagnostic Centre Limited'),
('VIJIFIN', 'Viji Finance Limited'),
('VIKASECO', 'Vikas EcoTech Limited'),
('VIKASLIFE', 'Vikas Lifecare Limited'),
('VIMTALABS', 'Vimta Labs Limited'),
('VINATIORGA', 'Vinati Organics Limited'),
('VINDHYATEL', 'Vindhya Telelinks Limited'),
('VINEETLAB', 'Vineet Laboratories Limited'),
('VINNY', 'Vinny Overseas Limited'),
('VINYLINDIA', 'Vinyl Chemicals (India), Limited'),
('VIPCLOTHNG', 'VIP Clothing Limited'),
('VIPIND', 'VIP Industries Limited'),
('VIPULLTD', 'Vipul Limited'),
('VIRINCHI', 'Virinchi Limited'),
('VISAKAIND', 'Visaka Industries Limited'),
('VISHNU', 'Vishnu Chemicals Limited'),
('VISHWARAJ', 'Vishwaraj Sugar Industries Limited'),
('VIVIDHA', 'Visagar Polytex Limited'),
('VLEGOV', 'VL E-Governance & IT Solutions Limited'),
('VLSFINANCE', 'VLS Finance Limited'),
('VMART', 'V-Mart Retail Limited'),
('VOLTAMP', 'Voltamp Transformers Limited'),
('VOLTAS', 'Voltas Limited'),
('VPRPL', 'Vishnu Prakash R Punglia Limited'),
('VRAJ', 'Vraj Iron and Steel Limited'),
('VRLLOG', 'VRL Logistics Limited'),
('VSSL', 'Vardhman Special Steels Limited'),
```

```
('VSTIND', 'VST Industries Limited'),
('VSTL', 'Vibhor Steel Tubes Limited'),
('VSTTILLERS', 'V.S.T Tillers Tractors Limited'),
('VTL', 'Vardhman Textiles Limited'),
('WABAG', 'VA Tech Wabag Limited'),
('WALCHANNAG', 'Walchandnagar Industries Limited'),
('WANBURY', 'Wanbury Limited'),
('WEALTH', 'Wealth First Portfolio Managers Limited'),
('WEBELSOLAR', 'Websol Energy System Limited'),
('WEIZMANIND', 'Weizmann Limited'),
('WEL', 'Wonder Electricals Limited'),
('WELCORP', 'Welspun Corp Limited'),
('WELENT', 'Welspun Enterprises Limited'),
('WELINV', 'Welspun Investments and Commercials Limited'),
('WELSPUNLIV', 'Welspun Living Limited'),
('WENDT', 'Wendt (India), Limited'),
('WESTLIFE', 'WESTLIFE FOODWORLD LIMITED'),
('WEWIN', 'WE WIN LIMITED'),
('WHEELS', 'Wheels India Limited'),
('WHIRLPOOL', 'Whirlpool of India Limited'),
('WILLAMAGOR', 'Williamson Magor & Company Limited'),
('WINDLAS', 'Windlas Biotech Limited'),
('WINDMACHIN', 'Windsor Machines Limited'),
('WINSOME', 'Winsome Yarns Limited'),
('WIPL', 'The Western India Plywoods Limited'),
('WIPRO', 'Wipro Limited'),
('WOCKPHARMA', 'Wockhardt Limited'),
('WONDERLA', 'Wonderla Holidays Limited'),
('WORTH', 'Worth Peripherals Limited'),
('WSI', 'W S Industries (I), Limited'),
('WSTCSTPAPR', 'West Coast Paper Mills Limited'),
('XCHANGING', 'Xchanging Solutions Limited'),
('XELPMOC', 'Xelpmoc Design And Tech Limited'),
('XPROINDIA', 'Xpro India Limited'),
('YAARI', 'Yaari Digital Integrated Services Limited'),
('YASHO', 'Yasho Industries Limited'),
('YATHARTH', 'Yatharth Hospital & Trauma Care Services Limited'),
('YATRA', 'Yatra Online Limited'),
('YESBANK', 'Yes Bank Limited'),
('YUKEN', 'Yuken India Limited'),
('ZAGGLE', 'Zaggle Prepaid Ocean Services Limited'),
('ZEEL', 'Zee Entertainment Enterprises Limited'),
```

```
('ZEELEARN', 'Zee Learn Limited'),
('ZEEMEDIA', 'Zee Media Corporation Limited'),
('ZENITHEXPO', 'Zenith Exports Limited'),
('ZENITHSTL', 'Zenith Steel Pipes & Industries Limited'),
('ZENSARTECH', 'Zensar Technologies Limited'),
('ZENTEC', 'Zen Technologies Limited'),
('ZFCVINDIA', 'ZF Commercial Vehicle Control Systems India Limited'),
('ZIMLAB', 'Zim Laboratories Limited'),
('ZODIAC', 'Zodiac Energy Limited'),
('ZODIACLOTH', 'Zodiac Clothing Company Limited'),
('ZOMATO', 'Zomato Limited'),
('ZOTA', 'Zota Health Care LImited'),
('ZUARI', 'Zuari Agro Chemicals Limited'),
('ZUARIIND', 'ZUARI INDUSTRIES LIMITED'),
('ZYDUSLIFE', 'Zydus Lifesciences Limited'),
('ZYDUSWELL', 'Zydus Wellness Limited'),
    ('ZYDUSWELL', 'Zydus Wellness Limited')
]
folder_path = r"G:\anaconda\data collection\data"
for file_name, company_name in company_data:
    file_path = os.path.join(folder_path, file_name + ".csv")

    # Check if the file exists
    if os.path.exists(file_path):
        # Load the CSV file into a DataFrame
        df = pd.read_csv(file_path)

        # Add the new column with the company name
        df['Company Name'] = company_name

        # Save the updated DataFrame back to the same CSV file
        df.to_csv(file_path, index=False)
        print(f"Updated {file_name}.csv successfully.")
    else:
        print(f"File {file_name}.csv not found in the folder.")

print("All CSV files have been updated with company names.")
# add company name column in all data
```

In [1]:
```
# check nan value in all column
import pandas as pd
import os
```

```python
folder_path = r"G:\anaconda\data collection\data"


files_with_nan = []


csv_files = [f for f in os.listdir(folder_path) if f.endswith('.csv')]

# Loop through each CSV file
for csv_file in csv_files:
    file_path = os.path.join(folder_path, csv_file)


    df = pd.read_csv(file_path)


    if df.isnull().values.any():
        files_with_nan.append(csv_file)


if files_with_nan:
    print("The following files contain NaN values:")
    for file in files_with_nan:
        print(file)
else:
    print("No files contain NaN values.")
```

No files contain NaN values.

In [9]:
```python
import pandas as pd
import os

# Folder path where all CSV files are stored
folder_path = r"G:\anaconda\data collection\data"

# Initialize an empty list to hold data from all files
all_data = []

# Get a list of all CSV files in the directory
csv_files = [f for f in os.listdir(folder_path) if f.endswith('.csv')]
```

```python
    # Loop through each CSV file
    for csv_file in csv_files:
        file_path = os.path.join(folder_path, csv_file)

        # Load the CSV file into a DataFrame
        df = pd.read_csv(file_path)

        # Optionally add a column for the file name (without '.csv' extension)
        df['Company'] = csv_file.replace('.csv', '')

        # Append the DataFrame to the list
        all_data.append(df)

    # Concatenate all DataFrames into one DataFrame
    merged_df = pd.concat(all_data, ignore_index=True)

    # Define the new path to save the merged CSV file
    save_folder = r"G:\anaconda\data collection\data\final dataset"
    output_path = os.path.join(save_folder, 'Stock Data.csv')

    # Ensure the directory exists; if not, create it
    os.makedirs(save_folder, exist_ok=True)

    # Save the merged DataFrame into a single CSV file
    merged_df.to_csv(output_path, index=False)

    print(f"All files have been merged into {output_path}.")
```

```
C:\Users\Pc\AppData\Local\Temp\ipykernel_7312\1276842643.py:27: FutureWarning: The behavior of DataFrame concatenatio
n with empty or all-NA entries is deprecated. In a future version, this will no longer exclude empty or all-NA column
s when determining the result dtypes. To retain the old behavior, exclude the relevant entries before the concat oper
ation.
  merged_df = pd.concat(all_data, ignore_index=True)
All files have been merged into G:\anaconda\data collection\data\final dataset\Stock Data.csv.
```

In [27]:
```python
try:
    final_dataset = pd.read_csv("G:\\anaconda\\data collection\\data\\final dataset\\Stock Data.csv")
    print(final_dataset)
except PermissionError as e:
    print(f"PermissionError: {e}")
except Exception as e:
```

```
        print(f"An error occurred: {e}")

    PermissionError: [Errno 13] Permission denied
```

In [24]:
```
# final_dataset = pd.read_csv("G:\\anaconda\\data collection\\data\\final dataset\\Stock Data.csv")
# print(final_dataset)
```

In [28]:
```python
import os
import pandas as pd

file_path = r"G:\anaconda\data collection\data\final dataset\Stock Data.csv"

# Check if the file exists
if os.path.exists(file_path):
    print(f"File {file_path} exists.")
else:
    print(f"File {file_path} does not exist.")

# Check if the file is readable
if os.access(file_path, os.R_OK):
    print(f"File {file_path} is readable.")
else:
    print(f"File {file_path} is not readable. Check permissions.")

# Attempt to read the file
try:
    final_dataset = pd.read_csv(file_path)
    print(final_dataset)
except PermissionError as e:
    print(f"PermissionError: {e}. Check file and directory permissions.")
except Exception as e:
    print(f"An error occurred: {e}")
```

```
    File G:\anaconda\data collection\data\final dataset\Stock Data.csv exists.
    File G:\anaconda\data collection\data\final dataset\Stock Data.csv is readable.
    PermissionError: [Errno 13] Permission denied. Check file and directory permissions.
```

In [29]:
```python
import os
import stat

file_path = r"G:\anaconda\data collection\data\final dataset\Stock Data.csv"

# Get file permissions
```

```python
    permissions = os.stat(file_path).st_mode
    print(f"File permissions: {oct(permissions)}")

    # Check if the file is writable
    if os.access(file_path, os.W_OK):
        print(f"File {file_path} is writable.")
    else:
        print(f"File {file_path} is not writable. Check file permissions.")
```

```
File permissions: 0o100666
File G:\anaconda\data collection\data\final dataset\Stock Data.csv is writable.
```

In [31]:
```python
import pandas as pd
import os

file_path = r"G:\anaconda\data collection\data\final dataset\Stock Data.csv"

try:
    # Attempt to read the file
    final_dataset = pd.read_csv(file_path)
    print(final_dataset)
except PermissionError as e:
    print(f"PermissionError: {e}. You might need to check file permissions or system policies.")
except Exception as e:
    print(f"An error occurred: {e}")
```

```
PermissionError: [Errno 13] Permission denied. You might need to check file permissions or system policies.
```

In [32]:
```python
# Save to a different directory
save_folder = r"G:\anaconda\data collection\data\final dataset"  # Change to a directory where you have full control
output_path = os.path.join(save_folder, 'Stock_Data_for_Prediction.csv')

# Ensure the directory exists
os.makedirs(save_folder, exist_ok=True)

# Save the merged DataFrame into a new CSV file
merged_df.to_csv(output_path, index=False)

print(f"All files have been merged into {output_path}.")
```

```
All files have been merged into G:\anaconda\data collection\data\final dataset\Stock_Data_for_Prediction.csv.
```

In [4]:
```python
import pandas as pd
```

```python
final_dataset = pd.read_csv("G:\\anaconda\\data collection\\data\\final dataset\\Stock_Data_for_Prediction.csv")
final_dataset.head()
```

Out[4]:

	Date	Open	High	Low	Close	Adj Close	Volume	Company Name	Company
0	2008-10-06	40.00	40.00	15.800	16.775	14.652864	23501600	20 Microns Limited	20MICRONS
1	2008-10-07	16.00	19.00	13.925	15.025	13.124249	9113400	20 Microns Limited	20MICRONS
2	2008-10-08	14.00	14.60	12.550	13.250	11.573797	2464384	20 Microns Limited	20MICRONS
3	2008-10-10	12.45	12.45	10.825	11.600	10.132534	1207928	20 Microns Limited	20MICRONS
4	2008-10-13	12.15	13.30	11.650	12.325	10.765815	898692	20 Microns Limited	20MICRONS

In [5]:
```python
final_dataset.columns
```

Out[5]:
```
Index(['Date', 'Open', 'High', 'Low', 'Close', 'Adj Close', 'Volume',
       'Company Name', 'Company'],
      dtype='object')
```

In [39]:
```python
final_dataset.isna().sum()
```

Out[39]:
```
Date            0
Open            0
High            0
Low             0
Close           0
Adj Close       0
Volume          0
Company Name    0
Company         0
dtype: int64
```

In [6]:
```python
company_data_counts =final_dataset .groupby('Company').size().reset_index(name='Data Count')
company_data_counts
```

Out[6]:

	Company	Data Count
0	20MICRONS	3912
1	21STCENMGM	1631
2	360ONE	1219
3	3IINFOLTD	4771
4	3MINDIA	5498
...	...	...
1987	ZOTA	1800
1988	ZUARI	2894
1989	ZUARIIND	5498
1990	ZYDUSLIFE	6068
1991	ZYDUSWELL	3646

1992 rows × 2 columns

In [47]:
```python
# save the file incsv formate to display group wise company data record
company_data_counts.to_csv("G:\\anaconda\\data collection\\data\\final dataset\\groupwise_total_company_count_column.
```

In [7]:
```python
final_dataset.count()
```

Out[7]:
```
Date           6374612
Open           6374612
High           6374612
Low            6374612
Close          6374612
Adj Close      6374612
Volume         6374612
Company Name   6374612
Company        6374612
dtype: int64
```

```
In [8]: final_dataset
```

Out[8]:

	Date	Open	High	Low	Close	Adj Close	Volume	Company Name	Company
0	2008-10-06	40.000000	40.000000	15.800000	16.775000	14.652864	23501600	20 Microns Limited	20MICRONS
1	2008-10-07	16.000000	19.000000	13.925000	15.025000	13.124249	9113400	20 Microns Limited	20MICRONS
2	2008-10-08	14.000000	14.600000	12.550000	13.250000	11.573797	2464384	20 Microns Limited	20MICRONS
3	2008-10-10	12.450000	12.450000	10.825000	11.600000	10.132534	1207928	20 Microns Limited	20MICRONS
4	2008-10-13	12.150000	13.300000	11.650000	12.325000	10.765815	898692	20 Microns Limited	20MICRONS
...	...	...	...	...	...	...	...	...	...
6374607	2024-08-19	2236.449951	2263.949951	2202.000000	2208.199951	2208.199951	106985	Zydus Wellness Limited	ZYDUSWELL
6374608	2024-08-20	2220.000000	2325.000000	2194.550049	2305.649902	2305.649902	24518	Zydus Wellness Limited	ZYDUSWELL
6374609	2024-08-21	2300.649902	2305.449951	2251.949951	2291.250000	2291.250000	35104	Zydus Wellness Limited	ZYDUSWELL
6374610	2024-08-22	2250.000000	2329.800049	2250.000000	2312.800049	2312.800049	16553	Zydus Wellness Limited	ZYDUSWELL
6374611	2024-08-23	2312.399902	2324.399902	2273.800049	2281.550049	2281.550049	11154	Zydus Wellness Limited	ZYDUSWELL

6374612 rows × 9 columns

```python
import matplotlib.pyplot as plt
import seaborn as sns
def plot_company_stock_data(company_name):
    # Filter the data for the specified company
    company_data = final_dataset[final_dataset['Company'] == company_name]

    # Check if data exists for the company
    if company_data.empty:
        print(f"No data found for company: {company_name}")
        return

    # Set up the plot style
    sns.set(style='whitegrid')

    # Plot Open and Close
    plt.figure(figsize=(12, 6))
    plt.plot(company_data['Date'], company_data['Open'], label='Open', color='blue')
    plt.plot(company_data['Date'], company_data['Close'], label='Close', color='purple')
    plt.title(f'{company_name} - Open and Close Prices')
    plt.xlabel('Date')
    plt.ylabel('Price')
    plt.legend(loc='best')
    plt.tight_layout()
    plt.show()

    # Plot High and Low
    plt.figure(figsize=(12, 6))
    plt.plot(company_data['Date'], company_data['High'], label='High', color='green')
    plt.plot(company_data['Date'], company_data['Low'], label='Low', color='red')
    plt.title(f'{company_name} - High and Low Prices')
    plt.xlabel('Date')
    plt.ylabel('Price')
    plt.legend(loc='best')
    plt.tight_layout()
    plt.show()

    # Plot Close and Volume
    plt.figure(figsize=(12, 6))
    plt.plot(company_data['Date'], company_data['Close'], label='Close', color='purple')
```

```
    plt.plot(company_data['Date'], company_data['Volume'], label='Volume', color='orange')
    plt.title(f'{company_name} - Close Prices and Volume')
    plt.xlabel('Date')
    plt.ylabel('Value')
    plt.legend(loc='best')
    plt.tight_layout()
    plt.show()

# Get user input for company name
cname = input("Enter Company Name: ")

# Call the function with the user input
plot_company_stock_data(cname)
```


20MICRONS - Open and Close Prices

20MICRONS - High and Low Prices

20MICRONS - Close Prices and Volume
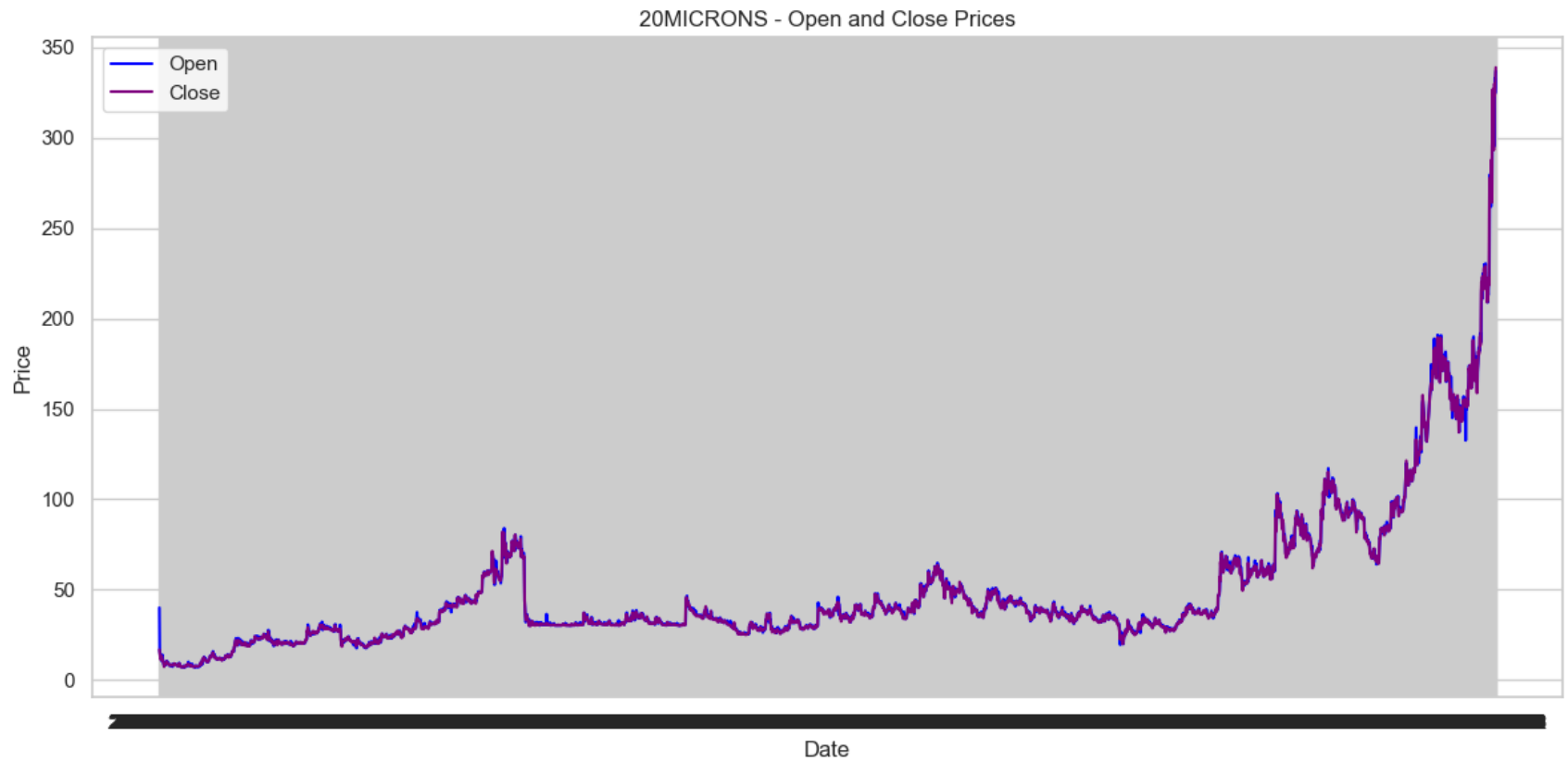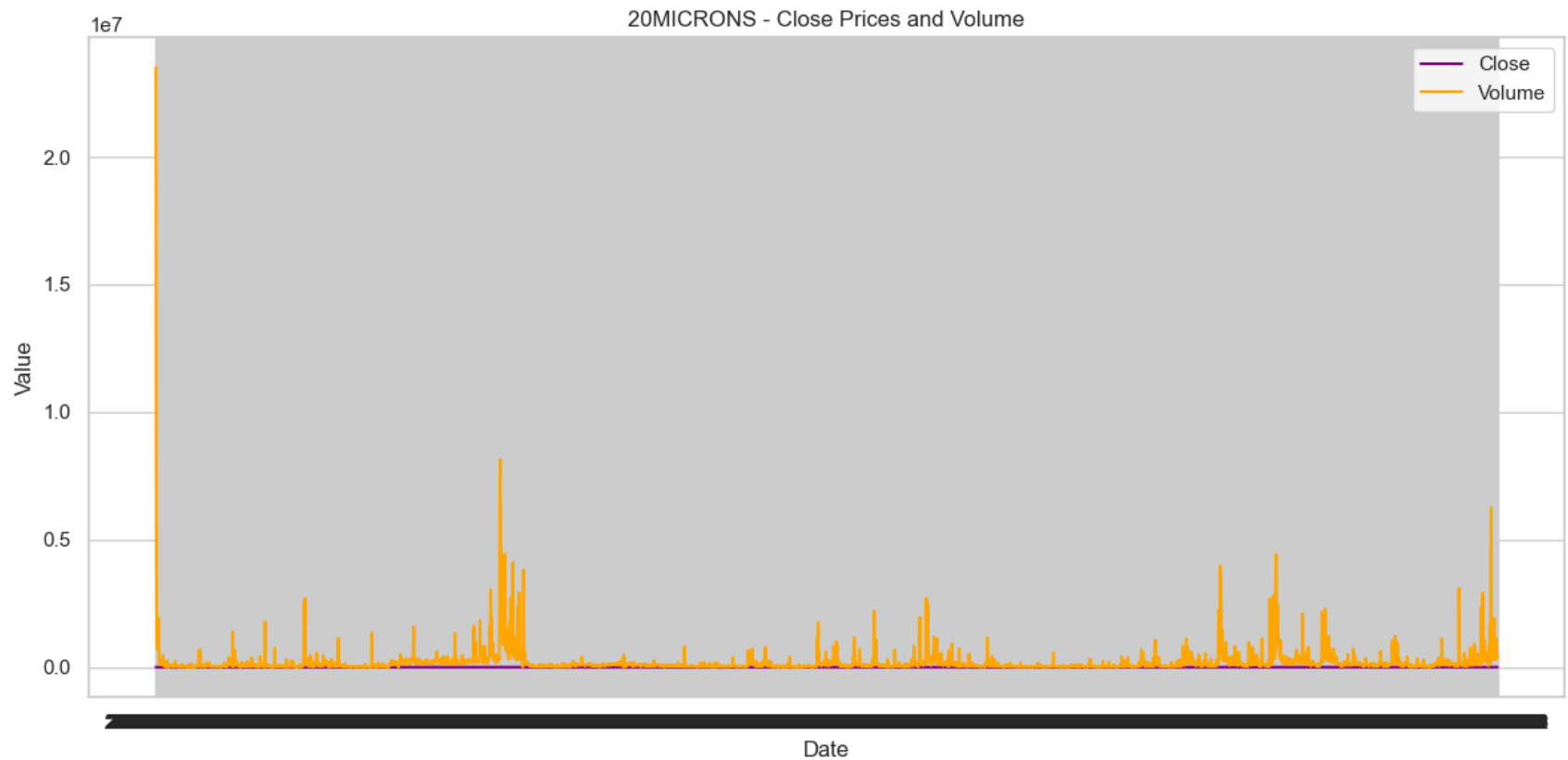
```
In [74]:  # Convert 'Date' column to datetime
          final_dataset['Date'] = pd.to_datetime(final_dataset['Date'], errors='coerce')

          def plot_company_stock_data(company_name):
              # Filter the data for the specified company
              company_data = final_dataset[final_dataset['Company'] == company_name]

              # Check if data exists for the company
              if company_data.empty:
                  print(f"No data found for company: {company_name}")
                  return

              # Set up the plot style
              sns.set(style='whitegrid')

              # Extract year from Date
```

```python
company_data['Year'] = company_data['Date'].dt.year

# Aggregate data by year
yearly_data = company_data.groupby('Year').agg({
    'Open': 'mean',
    'High': 'mean',
    'Low': 'mean',
    'Close': 'mean',
    'Volume': 'mean'
}).reset_index()

# Plot Open and Close Prices by Year
plt.figure(figsize=(12, 6))
plt.plot(yearly_data['Year'], yearly_data['Open'], label='Open', color='blue', marker='o')
plt.plot(yearly_data['Year'], yearly_data['Close'], label='Close', color='purple', marker='o')
plt.title(f'{company_name} - Yearly Open and Close Prices')
plt.xlabel('Year')
plt.ylabel('Price')
plt.legend(loc='best')
plt.tight_layout()
plt.show()

# Plot High and Low Prices by Year
plt.figure(figsize=(12, 6))
plt.plot(yearly_data['Year'], yearly_data['High'], label='High', color='green', marker='o')
plt.plot(yearly_data['Year'], yearly_data['Low'], label='Low', color='red', marker='o')
plt.title(f'{company_name} - Yearly High and Low Prices')
plt.xlabel('Year')
plt.ylabel('Price')
plt.legend(loc='best')
plt.tight_layout()
plt.show()

# Plot Close Prices and Volume by Year
plt.figure(figsize=(12, 6))
plt.plot(yearly_data['Year'], yearly_data['Close'], label='Close', color='purple', marker='o')
plt.plot(yearly_data['Year'], yearly_data['Volume'], label='Volume', color='orange', marker='o')
plt.title(f'{company_name} - Yearly Close Prices and Volume')
plt.xlabel('Year')
plt.ylabel('Value')
plt.legend(loc='best')
plt.tight_layout()
```

```
    plt.show()

# Get user input for company name
cname = input("Enter Company Name: ")

# Call the function with the user input
plot_company_stock_data(cname)
```

360ONE - Yearly Open and Close Prices

360ONE - Yearly High and Low Prices

360ONE - Yearly Close Prices and Volume

```python
# Convert 'Date' to datetime
final_dataset['Date'] = pd.to_datetime(final_dataset['Date'], format='%Y-%m-%d')

def plot_stock_data(company_name, time_period):
    # Filter the data for the specified company
    company_data = final_dataset[final_dataset['Company'] == company_name]

    # Check if data exists for the company
    if company_data.empty:
        print(f"No data found for company: {company_name}")
        return

    # Set up the plot style
    sns.set(style='whitegrid')

    # Resample and plot based on the chosen time period
```

```python
    if time_period == 'year':
        # Group by year
        company_data.set_index('Date', inplace=True)
        grouped_data = company_data.resample('Y').agg({'Open': 'mean', 'High': 'max', 'Low': 'min', 'Close': 'mean',

        # Plot
        plt.figure(figsize=(14, 8))
        plt.subplot(3, 1, 1)
        plt.plot(grouped_data.index, grouped_data['Open'], label='Open', color='blue')
        plt.plot(grouped_data.index, grouped_data['Close'], label='Close', color='purple')
        plt.title(f'{company_name} Stock Data - Year Wise')
        plt.xlabel('Year')
        plt.ylabel('Value')
        plt.legend(loc='best')

        plt.subplot(3, 1, 2)
        plt.plot(grouped_data.index, grouped_data['High'], label='High', color='green')
        plt.plot(grouped_data.index, grouped_data['Low'], label='Low', color='red')
        plt.title(f'{company_name} High/Low Data - Year Wise')
        plt.xlabel('Year')
        plt.ylabel('Value')
        plt.legend(loc='best')

        plt.subplot(3, 1, 3)
        plt.plot(grouped_data.index, grouped_data['Volume'], label='Volume', color='orange')
        plt.title(f'{company_name} Volume Data - Year Wise')
        plt.xlabel('Year')
        plt.ylabel('Volume')
        plt.legend(loc='best')

    elif time_period == 'month':
        # Group by month
        company_data.set_index('Date', inplace=True)
        grouped_data = company_data.resample('M').agg({'Open': 'mean', 'High': 'max', 'Low': 'min', 'Close': 'mean',

        # Plot
        plt.figure(figsize=(14, 8))
        plt.subplot(3, 1, 1)
        plt.plot(grouped_data.index, grouped_data['Open'], label='Open', color='blue')
        plt.plot(grouped_data.index, grouped_data['Close'], label='Close', color='purple')
        plt.title(f'{company_name} Stock Data - Month Wise')
        plt.xlabel('Month')
```

```python
        plt.ylabel('Value')
        plt.legend(loc='best')

        plt.subplot(3, 1, 2)
        plt.plot(grouped_data.index, grouped_data['High'], label='High', color='green')
        plt.plot(grouped_data.index, grouped_data['Low'], label='Low', color='red')
        plt.title(f'{company_name} High/Low Data - Month Wise')
        plt.xlabel('Month')
        plt.ylabel('Value')
        plt.legend(loc='best')

        plt.subplot(3, 1, 3)
        plt.plot(grouped_data.index, grouped_data['Volume'], label='Volume', color='orange')
        plt.title(f'{company_name} Volume Data - Month Wise')
        plt.xlabel('Month')
        plt.ylabel('Volume')
        plt.legend(loc='best')

    elif time_period == 'day':
        # Plot daily data
        plt.figure(figsize=(14, 8))
        plt.subplot(3, 1, 1)
        plt.plot(company_data.index, company_data['Open'], label='Open', color='blue')
        plt.plot(company_data.index, company_data['Close'], label='Close', color='purple')
        plt.title(f'{company_name} Stock Data - Date Wise')
        plt.xlabel('Date')
        plt.ylabel('Value')
        plt.legend(loc='best')

        plt.subplot(3, 1, 2)
        plt.plot(company_data.index, company_data['High'], label='High', color='green')
        plt.plot(company_data.index, company_data['Low'], label='Low', color='red')
        plt.title(f'{company_name} High/Low Data - Date Wise')
        plt.xlabel('Date')
        plt.ylabel('Value')
        plt.legend(loc='best')

        plt.subplot(3, 1, 3)
        plt.plot(company_data.index, company_data['Volume'], label='Volume', color='orange')
        plt.title(f'{company_name} Volume Data - Date Wise')
        plt.xlabel('Date')
        plt.ylabel('Volume')
```

```python
        plt.legend(loc='best')

    else:
        print("Invalid time period. Choose 'year', 'month', or 'day'.")
        return

    # Display the plot
    plt.tight_layout()
    plt.show()

# User input for company name and time period
company_name = input("Enter Company Name: ")
time_period = input("Enter Time Period (year, month, day): ")

# Call the function with the user input
plot_stock_data(company_name, time_period)
```

```
C:\Users\Pc\AppData\Local\Temp\ipykernel_7312\1953278981.py:50: FutureWarning: 'M' is deprecated and will be removed
in a future version, please use 'ME' instead.
  grouped_data = company_data.resample('M').agg({'Open': 'mean', 'High': 'max', 'Low': 'min', 'Close': 'mean', 'Volum
e': 'sum'})
```
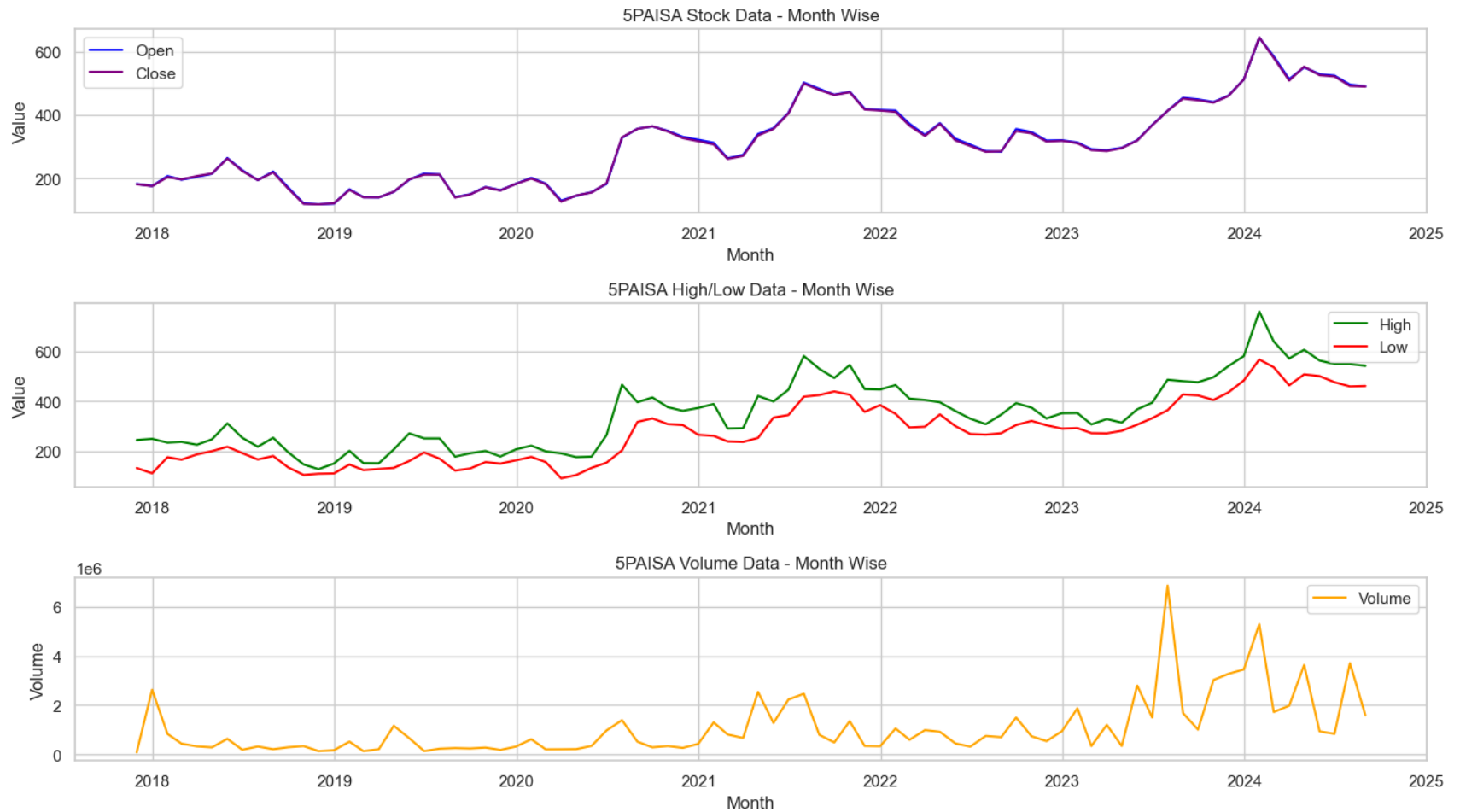
5PAISA Stock Data - Month Wise

5PAISA High/Low Data - Month Wise

5PAISA Volume Data - Month Wise

In [99]:
```python
# Convert 'Date' to datetime
final_dataset['Date'] = pd.to_datetime(final_dataset['Date'], format='%Y-%m-%d')

def plot_last_month_stock_data(company_name):
    # Filter the data for the specified company
    company_data = final_dataset[final_dataset['Company'] == company_name]

    # Check if data exists for the company
    if company_data.empty:
        print(f"No data found for company: {company_name}")
        return
```

```python
# Get the current date and calculate the start of the last month
end_date = datetime.now()
start_date = end_date - timedelta(days=30)

# Filter data for the last one month
recent_data = company_data[(company_data['Date'] >= start_date) & (company_data['Date'] <= end_date)]

# Check if recent data exists
if recent_data.empty:
    print(f"No data found for {company_name} in the last one month.")
    return

# Set up the plot style
sns.set(style='whitegrid')

# Plot the data
plt.figure(figsize=(14, 8))

plt.subplot(3, 1, 1)
plt.plot(recent_data['Date'], recent_data['Open'], label='Open', color='blue')
plt.plot(recent_data['Date'], recent_data['Close'], label='Close', color='purple')
plt.title(f'{company_name} Stock Data - Last One Month')
plt.xlabel('Date')
plt.ylabel('Value')
plt.legend(loc='best')

plt.subplot(3, 1, 2)
plt.plot(recent_data['Date'], recent_data['High'], label='High', color='green')
plt.plot(recent_data['Date'], recent_data['Low'], label='Low', color='red')
plt.title(f'{company_name} High/Low Data - Last One Month')
plt.xlabel('Date')
plt.ylabel('Value')
plt.legend(loc='best')

plt.subplot(3, 1, 3)
plt.plot(recent_data['Date'], recent_data['Volume'], label='Volume', color='orange')
plt.title(f'{company_name} Volume Data - Last One Month')
plt.xlabel('Date')
plt.ylabel('Volume')
plt.legend(loc='best')

# Display the plot
```
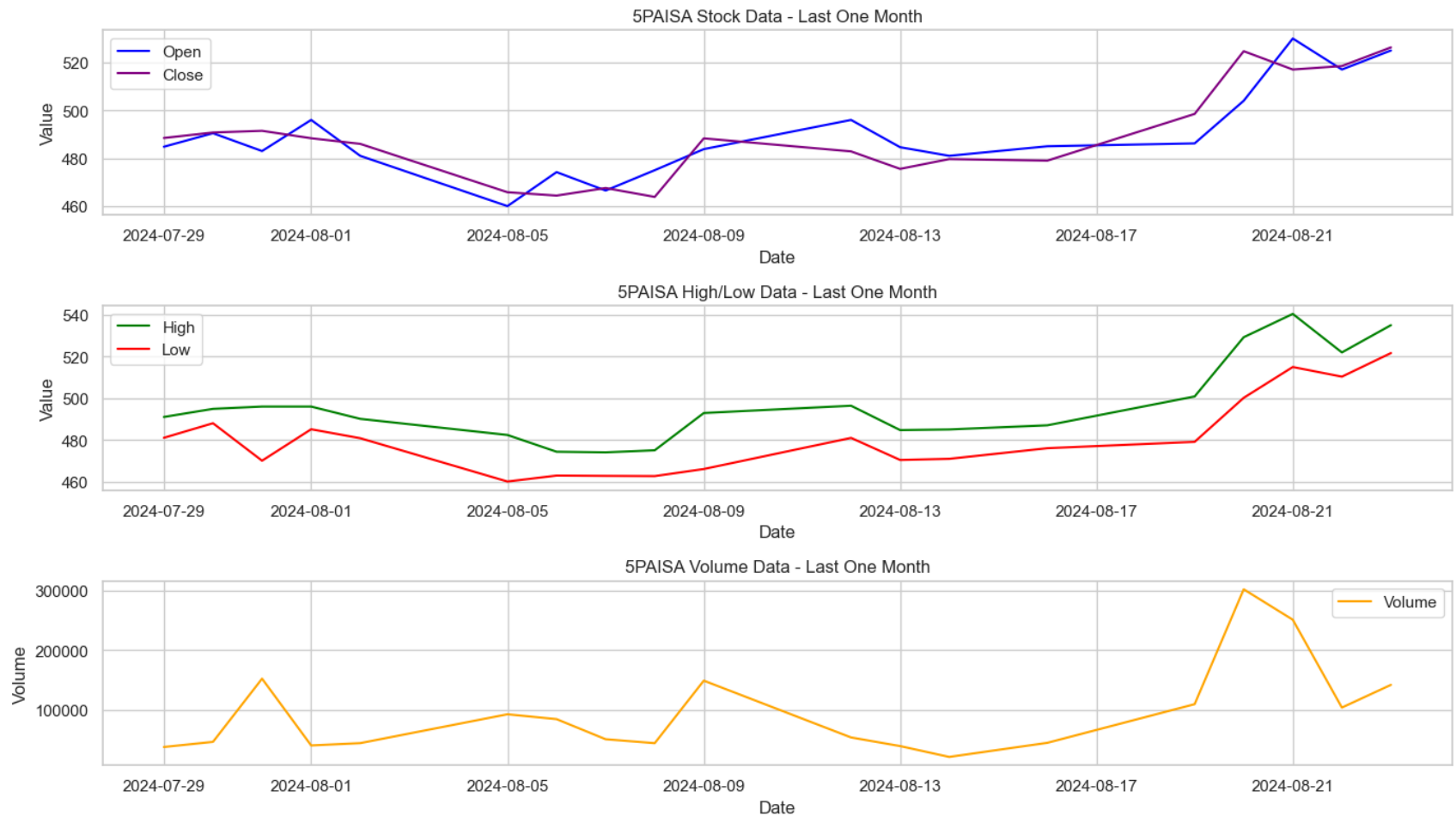
```python
    plt.tight_layout()
    plt.show()

# User input for company name
company_name = input("Enter Company Name: ")

# Call the function with the user input
plot_last_month_stock_data(company_name)
```



```python
In [13]:  final_dataset['Date'].isna().sum()

Out[13]:  0
```

```
In [14]:   final_dataset.columns

Out[14]:   Index(['Date', 'Open', 'High', 'Low', 'Close', 'Adj Close', 'Volume',
                  'Company Name', 'Company'],
               dtype='object')

In [21]:   from sklearn.model_selection import train_test_split
           X = final_dataset[['Open', 'High', 'Low', 'Volume']]  # Independent variables
           y = final_dataset['Close']  # Dependent variable (target)

           # Split the data into 80% train and 20% test sets
           X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

In [24]:   from sklearn.linear_model import LinearRegression
           from sklearn.metrics import mean_squared_error, r2_score
           model = LinearRegression()

           model.fit(X_train, y_train)

           # Predict the Close prices for the test data
           y_pred = model.predict(X_test)
           residuals = y_test - y_pred

           # Evaluate the model using Mean Squared Error (MSE) and R-squared (R²)
           mse = mean_squared_error(y_test, y_pred)
           r2 = r2_score(y_test, y_pred)

           print(f"Mean Squared Error: {mse}")
           print(f"R^2 Score: {r2}")
           print(f"Residuals: {residuals}")
```

```
Mean Squared Error: 5365.291027303224
R^2 Score: 0.9994209187857905
Residuals: 5673554    -0.353333
1618423    -1.650006
4132590     0.056353
175417     -2.203042
275223     -0.176336
             ...
4380169     0.909664
3117859    -0.269971
1466884     0.053917
205410      0.225373
445323     -1.407251
Name: Close, Length: 1274923, dtype: float64
```

In [ ]:
```python
plt.scatter(y_pred, residuals)
plt.axhline(0, color='red', linestyle='--')
plt.xlabel('Predicted Values')
plt.ylabel('Residuals')
plt.title('Residual Plot')
plt.show()
```

In [ ]:

In [ ]: