In [1]:
```
import numpy as np
import pandas as pd
```

In [2]:
```
df = pd.read_csv('orders.csv')
```

In [3]:
```
df
```

Out[3]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status
0	18/12/21 10:23	SELL	SBI	CNC	1000/1000	525.25	COMPLETE
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000/1000	125.70	COMPLETE
2	16/12/21 15:08	BUY	SBI	CNC	1000/1000	520.80	COMPLETE
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250/250	490.55	COMPLETE
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0/1000	127.10	CANCELLED
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250/250	492.10	COMPLETE
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0/250	490.80	CANCELLED
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000/1000	125.96	COMPLETE
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000/2000	125.70	COMPLETE
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000/2000	125.95	COMPLETE
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0/2000	124.45	CANCELLED
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000/2000	125.95	COMPLETE
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000/1000	125.60	COMPLETE
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000/1000	125.65	COMPLETE

In [4]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 14 entries, 0 to 13
Data columns (total 7 columns):
 #   Column      Non-Null Count  Dtype  
---  ------      --------------  -----  
 0   Time        14 non-null     object 
 1   Type        14 non-null     object 
 2   Instrument  14 non-null     object 
 3   Product     14 non-null     object 
 4   Qty.        14 non-null     object 
 5   Avg. price  14 non-null     float64
 6   Status      14 non-null     object 
dtypes: float64(1), object(6)
memory usage: 912.0+ bytes
```

In [5]:
```
df.describe()
```

Out[5]:

	Avg. price
count	14.000000
mean	260.825714
std	188.268428
min	124.450000
25%	125.700000
50%	125.955000
75%	490.737500
max	525.250000

In [6]:
```
df['Qty.']
```

Out[6]:
```
0     1000/1000
1     1000/1000
2     1000/1000
3       250/250
4         0/1000
5       250/250
6         0/250
7     1000/1000
8     2000/2000
9     2000/2000
10      0/2000
11    2000/2000
12    1000/1000
13    1000/1000
Name: Qty., dtype: object
```

In [7]:
```
df['Qty.'] = df['Qty.'].str.split('/').str[0].astype(int)
```

In [8]:
```
df
```

Out[8]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status
0	18/12/21 10:23	SELL	SBI	CNC	1000	525.25	COMPLETE
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE
2	16/12/21 15:08	BUY	SBI	CNC	1000	520.80	COMPLETE
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE

In [9]:
```
df.drop(df[df['Product'] != 'MIS'].index, inplace = True)
```

In [10]:
```
df
```

Out[10]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE

In [11]:
```
df['Turnover'] = df['Avg. price']*df['Qty.']
```

In [12]:
```
df
```

Out[12]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0

In [13]:
```
df['Brokerage'] = df['Turnover']*0.0003
```

In [14]:
```
df['Brokerage'] = np.where(df['Brokerage']>= 20,20,df['Brokerage'])
```

In [15]:
```
df
```

Out[15]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover	Brokerage
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0	20.0
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5	20.0
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0	0.0
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0	20.0
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0	0.0
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0	20.0
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0	20.0
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0	0.0
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0	20.0
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0	20.0

In [16]:
```
df['STT/CTT'] = np.where(df['Type'] == "SELL",df['Turnover']*0.00025,0).round(2)
```

In [17]:
```
df
```

Out[17]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover	Brokerage	STT/CTT
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0	20.0	0.00
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5	20.0	0.00
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0	0.0	0.00
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0	20.0	30.76
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0	0.0	0.00
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0	20.0	31.49
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0	20.0	0.00
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0	0.0	0.00
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0	20.0	0.00
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0	20.0	0.00

In [18]:
```
df['ETC'] = (df['Turnover']*0.0000325).round(2)
```

In [19]:
```
df
```

Out[19]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover	Brokerage	STT/CTT	ETC
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0	20.0	0.00	4.09
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5	20.0	0.00	3.99
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0	0.0	0.00	0.00
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0	20.0	30.76	4.00
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0	0.0	0.00	0.00
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0	20.0	31.49	4.09
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0	20.0	0.00	8.17
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0	0.0	0.00	0.00
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0	20.0	0.00	4.08
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0	20.0	0.00	4.08

In [20]:
```
df['SEBI'] = (df['Turnover']*(10/10000000)).round(2)
```

In [21]:
```
df
```

Out[21]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover	Brokerage	STT/CTT	ETC	SEBI
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0	20.0	0.00	4.09	0.13
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5	20.0	0.00	3.99	0.12
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0	0.0	0.00	0.00	0.00
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0	20.0	30.76	4.00	0.12
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0	0.0	0.00	0.00	0.00
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0	20.0	31.49	4.09	0.13
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0	20.0	0.00	8.17	0.25
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0	0.0	0.00	0.00	0.00
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0	20.0	0.00	4.08	0.13
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0	20.0	0.00	4.08	0.13

In [22]:
```
df['GST'] = ((df['Brokerage'] + df['ETC'] + df['SEBI'])*(0.18)).round(2)
```

In [23]:
```
df
```

Out[23]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover	Brokerage	STT/CTT	ETC	SEBI	GST
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0	20.0	0.00	4.09	0.13	4.36
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5	20.0	0.00	3.99	0.12	4.34
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0	20.0	30.76	4.00	0.12	4.34
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0	20.0	31.49	4.09	0.13	4.36
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0	20.0	0.00	8.17	0.25	5.12
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0	20.0	0.00	4.08	0.13	4.36
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0	20.0	0.00	4.08	0.13	4.36

In [24]:
```
df['Stamp charges'] =  np.where(df['Type'] == "BUY",df['Turnover']*0.00003,0).round(2)
```

In [25]:
```
df
```

Out[25]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover	Brokerage	STT/CTT	ETC	SEBI	GST	Stamp charges
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0	20.0	0.00	4.09	0.13	4.36	3.77
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5	20.0	0.00	3.99	0.12	4.34	3.68
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0	20.0	30.76	4.00	0.12	4.34	0.00
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0	20.0	31.49	4.09	0.13	4.36	0.00
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0	20.0	0.00	8.17	0.25	5.12	7.54
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12	0.00
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12	0.00
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0	20.0	0.00	4.08	0.13	4.36	3.77
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0	20.0	0.00	4.08	0.13	4.36	3.77

In [26]:
```
df['Stamp charges'] = np.where(df['Stamp charges']>= 300,300,df['Stamp charges'])
```

In [27]:
```
df
```

Out[27]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover	Brokerage	STT/CTT	ETC	SEBI	GST	Stamp charges
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0	20.0	0.00	4.09	0.13	4.36	3.77
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5	20.0	0.00	3.99	0.12	4.34	3.68
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0	20.0	30.76	4.00	0.12	4.34	0.00
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0	20.0	31.49	4.09	0.13	4.36	0.00
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0	20.0	0.00	8.17	0.25	5.12	7.54
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12	0.00
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12	0.00
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0	20.0	0.00	4.08	0.13	4.36	3.77
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0	20.0	0.00	4.08	0.13	4.36	3.77

In [28]:
```
df['Total charges'] = df['Brokerage'] + df['STT/CTT'] + df['ETC'] + df['SEBI'] + df['GST'] + df['Stamp charges']
```

In [29]:
```
df
```

Out[29]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover	Brokerage	STT/CTT	ETC	SEBI	GST	Stamp charges	Total charges
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0	20.0	0.00	4.09	0.13	4.36	3.77	32.35
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5	20.0	0.00	3.99	0.12	4.34	3.68	32.13
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0	20.0	30.76	4.00	0.12	4.34	0.00	59.22
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0	20.0	31.49	4.09	0.13	4.36	0.00	60.07
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0	20.0	0.00	8.17	0.25	5.12	7.54	41.08
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12	0.00	96.54
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12	0.00	96.54
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0	20.0	0.00	4.08	0.13	4.36	3.77	32.34
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0	20.0	0.00	4.08	0.13	4.36	3.77	32.34

In [30]:
```
All_Transaction = df
```

In [31]:
```
All_Transaction
```

Out[31]:

	Time	Type	Instrument	Product	Qty.	Avg. price	Status	Turnover	Brokerage	STT/CTT	ETC	SEBI	GST	Stamp charges	Total charges
1	16/12/21 15:08	BUY	ASHOKLEY	MIS	1000	125.70	COMPLETE	125700.0	20.0	0.00	4.09	0.13	4.36	3.77	32.35
3	16/12/21 14:13	BUY	TATAMOTORS	MIS	250	490.55	COMPLETE	122637.5	20.0	0.00	3.99	0.12	4.34	3.68	32.13
4	16/12/21 13:54	BUY	ASHOKLEY	MIS	0	127.10	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
5	16/12/21 13:21	SELL	TATAMOTORS	MIS	250	492.10	COMPLETE	123025.0	20.0	30.76	4.00	0.12	4.34	0.00	59.22
6	16/12/21 12:51	BUY	TATAMOTORS	MIS	0	490.80	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
7	16/12/21 12:39	SELL	ASHOKLEY	MIS	1000	125.96	COMPLETE	125960.0	20.0	31.49	4.09	0.13	4.36	0.00	60.07
8	16/12/21 12:29	BUY	ASHOKLEY	MIS	2000	125.70	COMPLETE	251400.0	20.0	0.00	8.17	0.25	5.12	7.54	41.08
9	16/12/21 11:22	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12	0.00	96.54
10	16/12/21 10:47	SELL	ASHOKLEY	MIS	0	124.45	CANCELLED	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
11	16/12/21 10:46	SELL	ASHOKLEY	MIS	2000	125.95	COMPLETE	251900.0	20.0	62.98	8.19	0.25	5.12	0.00	96.54
12	16/12/21 10:24	BUY	ASHOKLEY	MIS	1000	125.60	COMPLETE	125600.0	20.0	0.00	4.08	0.13	4.36	3.77	32.34
13	16/12/21 10:23	BUY	ASHOKLEY	MIS	1000	125.65	COMPLETE	125650.0	20.0	0.00	4.08	0.13	4.36	3.77	32.34

In [32]:
```
writer = pd.ExcelWriter('Kite PnL Solution.xlsx')
```

In [33]:
```
All_Transaction.to_excel(writer,sheet_name="Individual Transaction Charges")
```

In [34]:
```
writer.save()
```

```
C:\Users\dell\AppData\Local\Temp\ipykernel_8092\934276808.py:1: FutureWarning: save is not part of the public API, usage can giv
e unexpected results and will be removed in a future version
  writer.save()
```

In [35]:
```
stokwise_typewise = pd.DataFrame(df.groupby(['Instrument','Type'],as_index = False).sum())
```

```
C:\Users\dell\AppData\Local\Temp\ipykernel_8092\2846255390.py:1: FutureWarning: The default value of numeric_only in DataFrameGr
oupBy.sum is deprecated. In a future version, numeric_only will default to False. Either specify numeric_only or select only col
umns which should be valid for the function.
  stokwise_typewise = pd.DataFrame(df.groupby(['Instrument','Type'],as_index = False).sum())
```

In [36]:
```
stokwise_typewise
```

Out[36]:

	Instrument	Type	Qty.	Avg. price	Turnover	Brokerage	STT/CTT	ETC	SEBI	GST	Stamp charges	Total charges
0	ASHOKLEY	BUY	5000	629.75	628350.0	80.0	0.00	20.42	0.64	18.20	18.85	138.11
1	ASHOKLEY	SELL	5000	502.31	629760.0	60.0	157.45	20.47	0.63	14.60	0.00	253.15
2	TATAMOTORS	BUY	250	981.35	122637.5	20.0	0.00	3.99	0.12	4.34	3.68	32.13
3	TATAMOTORS	SELL	250	492.10	123025.0	20.0	30.76	4.00	0.12	4.34	0.00	59.22

In [37]:
```
st_typewise = pd.DataFrame(df.groupby(['Instrument','Type'],as_index = False).agg({"Qty.":['sum'],'Avg. price':['mean'],'Turnover
```

In [38]:
```
st_typewise
```

Out[38]:

	Instrument	Type	Qty.	Avg. price	Turnover	Brokerage	STT/CTT	ETC	SEBI	GST	Stamp charges	Total charges
			sum	mean	sum	sum	sum	sum	sum	sum	sum	sum
0	ASHOKLEY	BUY	5000	125.9500	628350.0	80.0	0.00	20.42	0.64	18.20	18.85	138.11
1	ASHOKLEY	SELL	5000	125.5775	629760.0	60.0	157.45	20.47	0.63	14.60	0.00	253.15
2	TATAMOTORS	BUY	250	490.6750	122637.5	20.0	0.00	3.99	0.12	4.34	3.68	32.13
3	TATAMOTORS	SELL	250	492.1000	123025.0	20.0	30.76	4.00	0.12	4.34	0.00	59.22

In [39]:
```
stokwise_typewise.to_excel(writer,sheet_name="Stockwise & Type wise")
```

In [40]:
```
st_typewise.to_excel(writer,sheet_name="Stockwise & Type wise summary")
```

In [41]:
```
writer.save()
```

```
C:\Users\dell\AppData\Local\Temp\ipykernel_8092\934276808.py:1: FutureWarning: save is not part of the public API, usage can giv
e unexpected results and will be removed in a future version
  writer.save()
```

In [42]:
```
DF = pd.DataFrame(df['Instrument'].unique(),columns = ['Instrumnet'])
```

In [43]:
```
DF
```

Out[43]:

	Instrumnet
0	ASHOKLEY
1	TATAMOTORS

In [44]:
```
DF['Gross PnL'] = pd.DataFrame(stokwise_typewise.groupby('Instrument')['Turnover'].diff().dropna().reset_index(drop = True))
```

In [45]:
```
DF
```

Out[45]:

	Instrumnet	Gross PnL
0	ASHOKLEY	1410.0
1	TATAMOTORS	387.5

In [46]:
```
DF['Total Charge'] = pd.DataFrame(stokwise_typewise.groupby('Instrument')['Total charges'].sum().dropna().reset_index(drop = Tru
```

In [47]:
```
DF
```

Out[47]:

	Instrumnet	Gross PnL	Total Charge
0	ASHOKLEY	1410.0	391.26
1	TATAMOTORS	387.5	91.35

In [48]:
```
DF['Net PnL'] = DF['Gross PnL'] - DF['Total Charge']
```

In [49]:
```
DF
```

Out[49]:

	Instrumnet	Gross PnL	Total Charge	Net PnL
0	ASHOKLEY	1410.0	391.26	1018.74
1	TATAMOTORS	387.5	91.35	296.15

In [50]:
```
DF['% charge'] = (DF['Total Charge']/DF['Gross PnL']*100).round(2)
```

In [51]:
```
DF
```

Out[51]:

	Instrumnet	Gross PnL	Total Charge	Net PnL	% charge
0	ASHOKLEY	1410.0	391.26	1018.74	27.75
1	TATAMOTORS	387.5	91.35	296.15	23.57

In [52]:
```
Total_Gross = DF['Gross PnL'].sum()
```

In [53]:
```
Total_Gross
```

Out[53]:
```
1797.5
```

In [54]:
```
Total_charges = DF['Total Charge'].sum()
```

In [55]:
```
Total_charges
```

Out[55]:
```
482.61
```

In [56]:
```
Net_PnL = DF["Net PnL"].sum().round(2)
```

In [57]:
```
Net_PnL
```

Out[57]:
```
1314.89
```

In [58]:
```
charge = (Total_charges/Total_Gross*100).round(2)
```

In [59]:
```
charge
```

Out[59]:
```
26.85
```

In [60]:
```
Total = {'Instrumnet':'Total','Gross PnL':Total_Gross,'Total Charge':Total_charges,'Net PnL':Net_PnL,'% charge':charge}
```

In [61]:
```
Total_summary = DF.append(Total,ignore_index = True)
```

```
C:\Users\dell\AppData\Local\Temp\ipykernel_8092\139122236.py:1: FutureWarning: The frame.append method is deprecated and will be removed from pandas in a future version. Use pandas.concat instead.
  Total_summary = DF.append(Total,ignore_index = True)
```

In [62]:
```
Total_summary
```

Out[62]:

	Instrumnet	Gross PnL	Total Charge	Net PnL	% charge
0	ASHOKLEY	1410.0	391.26	1018.74	27.75
1	TATAMOTORS	387.5	91.35	296.15	23.57
2	Total	1797.5	482.61	1314.89	26.85

In [63]:
```
Total_summary.to_excel(writer,sheet_name="Stockwise Summary")
```

In [64]:
```
writer.save()
```

```
C:\Users\dell\AppData\Local\Temp\ipykernel_8092\934276808.py:1: FutureWarning: save is not part of the public API, usage can give unexpected results and will be removed in a future version
  writer.save()
```

In [ ]:

In [ ]: