# Finding and Filtering Support and Resistance levels:

## Example:

Analysing TATACOFFEE stock data over the past 6 months and finding those support and resistance levels from which the stock price has rebounded at least 3 times and at least once in the past 50 days:

## Input:

stock_names_list = ['TATACOFFEE']

summary_multiple*(stock_names_list, 'num_touches >=3', 'days_since_last_tested <= 50', volume=True, num_years=0.5, refresh=True)*

## Output:

```
Support

Most recent data:
Date: Sep 09, 2021
Price: 210.75

Average price:
186.57

Number of touches:
3

Date - Price data:

-------------------------------------------------------------------------------------------
Jul 07, 2021    =    185.4

Jul 20, 2021    =    182.25

Aug 11, 2021    =    192.05
-------------------------------------------------------------------------------------------

Number of days between tests:
('13 days', '22 days')

Time period:
35 days

Breached:
False

Days since last tested:
32 days

Current Price Status:
Above support/resistance level
+24.18
```

```
Resistance

Most recent data:
Date: Sep 09, 2021
Price: 210.75

Average price:
209.18

Number of touches:
3

Date - Price data:

------------------------------------------------------------------------------------------

Aug 13, 2021   =   207.9

Aug 25, 2021   =   203.4

Aug 31, 2021   =   216.25
------------------------------------------------------------------------------------------

Number of days between tests:
('12 days', '6 days')


Time period:
18 days

Breached:
False

Days since last tested:
12 days

Current Price Status:
Above support/resistance level
+1.57
```

```
Support

Most recent data:
Date: Sep 09, 2021
Price: 210.75

Average price:
174.36

Number of touches:
6

Date - Price data:

------------------------------------------------------------------------------------
May 24, 2021    =    172.25

Jun 07, 2021    =    173.0

Jun 18, 2021    =    168.0

Jun 24, 2021    =    172.05

Jul 20, 2021    =    182.25

Aug 23, 2021    =    178.6
------------------------------------------------------------------------------------

Number of days between tests:
('14 days', '11 days', '6 days', '26 days', '34 days')


Time period:
91 days

Breached:
False
```

```
 Days since last tested:
 20 days

 Current Price Status:
 Above support/resistance level
 +36.39
```

TATACOFFEE

# Finding Stocks that are Candidates for Range-Bound Trading:

## Example:

Analysing the stock data of the given list of stocks over the past 1.5 years and finding stocks that have had supports and resistances from which the stock price has rebounded at least 3 times and for which those supports and resistances have lasted till present day. The program then plots the Candlestick charts of only those stocks.

## Input:

stock_names_list = ['AARTIIND', 'TATACOFFEE', 'HDFC', 'HDFCBANK',

'HDFCLIFE']

summary_multiple(*stock_names_list, 'num_touches >= 3', volume=True, num_years=1.5, refresh=True, relevant_regions=True*)

## Output:

HDFCBANK close up