

# TASK ONE

## Call this public Api and create a csv dataset using python and pandas

Api: - <https://data.binance.com/api/v3/ticker/24hr> (<https://data.binance.com/api/v3/ticker/24hr>).

```
In [10]: import requests  
import pandas as pd
```

```
In [11]: response = requests.get("https://api.binance.com/api/v3/ticker/24hr")  
data_one = response.json()
```

```
In [12]: df = pd.DataFrame(data_one)
```

```
In [13]: df.to_csv("binance_data.csv", index=False)
```

```
In [14]: df.head()
```

```
Out[14]:
```

|   | symbol  | priceChange | priceChangePercent | weightedAvgPrice | prevClosePrice | lastPrice  |
|---|---------|-------------|--------------------|------------------|----------------|------------|
| 0 | ETHBTC  | -0.00030000 | -0.506             | 0.05888046       | 0.05927000     | 0.05896000 |
| 1 | LTCBTC  | 0.00003900  | 1.669              | 0.00234749       | 0.00233700     | 0.00237600 |
| 2 | BNBBTC  | -0.00000800 | -0.104             | 0.00766263       | 0.00769500     | 0.00768700 |
| 3 | NEOBTC  | -0.00000020 | -0.078             | 0.00025671       | 0.00025770     | 0.00025770 |
| 4 | QTUMETH | 0.00001500  | 1.101              | 0.00137604       | 0.00136500     | 0.00137800 |

5 rows × 21 columns



In [9]: `df.tail()`

Out[9]:

|             | symbol   | priceChange | priceChangePercent | weightedAvgPrice | prevClosePrice | lastl   |
|-------------|----------|-------------|--------------------|------------------|----------------|---------|
| <b>2301</b> | USDTVAI  | -0.00300000 | -0.297             | 1.01177766       | 1.00400000     | 1.0060  |
| <b>2302</b> | ARBFUSD  | 0.01730000  | 2.027              | 0.86754121       | 0.00000000     | 0.8708  |
| <b>2303</b> | FDUSDTRY | 0.08000000  | 0.288              | 27.67470337      | 0.00000000     | 27.8300 |
| <b>2304</b> | FRONTTRY | 0.85900000  | 10.601             | 8.73388443       | 0.00000000     | 8.9620  |
| <b>2305</b> | SUIFDUSD | 0.01210000  | 2.846              | 0.43985195       | 0.00000000     | 0.4373  |

5 rows × 21 columns



In [17]: `print(df)`

|      | symbol   | priceChange | priceChangePercent | weightedAvgPrice | \ |
|------|----------|-------------|--------------------|------------------|---|
| 0    | ETHBTC   | -0.00030000 | -0.506             | 0.05888046       |   |
| 1    | LTCBTC   | 0.00003900  | 1.669              | 0.00234749       |   |
| 2    | BNBBTC   | -0.00000800 | -0.104             | 0.00766263       |   |
| 3    | NEOBTC   | -0.00000020 | -0.078             | 0.00025671       |   |
| 4    | QTUMETH  | 0.00001500  | 1.101              | 0.00137604       |   |
| ...  | ...      | ...         | ...                | ...              |   |
| 2301 | USDTVAI  | -0.00300000 | -0.297             | 1.01177766       |   |
| 2302 | ARBDUSD  | 0.01730000  | 2.027              | 0.86754121       |   |
| 2303 | FDUSDTRY | 0.08000000  | 0.288              | 27.67494420      |   |
| 2304 | FRONTTRY | 0.88200000  | 10.885             | 8.73487935       |   |
| 2305 | SUIFDUSD | 0.01210000  | 2.846              | 0.43985195       |   |

|       | prevClosePrice | lastPrice   | lastQty       | bidPrice    | bid         |
|-------|----------------|-------------|---------------|-------------|-------------|
| Qty \ |                |             |               |             |             |
| 0     | 0.05927000     | 0.05896000  | 0.01320000    | 0.05895000  | 33.82560    |
| 000   |                |             |               |             |             |
| 1     | 0.00233700     | 0.00237600  | 1.86300000    | 0.00237400  | 128.16000   |
| 000   |                |             |               |             |             |
| 2     | 0.00769500     | 0.00768700  | 0.03200000    | 0.00768700  | 21.59900    |
| 000   |                |             |               |             |             |
| 3     | 0.00025770     | 0.00025770  | 20.00000000   | 0.00025770  | 710.71000   |
| 000   |                |             |               |             |             |
| 4     | 0.00136500     | 0.00137800  | 4.90000000    | 0.00137100  | 763.20000   |
| 000   |                |             |               |             |             |
| ...   | ...            | ...         | ...           | ...         |             |
| ...   |                |             |               |             |             |
| 2301  | 1.00400000     | 1.00600000  | 4.10000000    | 1.00600000  | 95.90000    |
| 000   |                |             |               |             |             |
| 2302  | 0.00000000     | 0.87080000  | 11.30000000   | 0.87330000  | 114.50000   |
| 000   |                |             |               |             |             |
| 2303  | 0.00000000     | 27.83000000 | 602.00000000  | 27.83000000 | 30120.00000 |
| 000   |                |             |               |             |             |
| 2304  | 0.00000000     | 8.98500000  | 2509.00000000 | 8.98100000  | 3687.00000  |
| 000   |                |             |               |             |             |
| 2305  | 0.00000000     | 0.43730000  | 33.10000000   | 0.43650000  | 229.00000   |
| 000   |                |             |               |             |             |

|      | askPrice    | ... | openPrice   | highPrice   | lowPrice    | \ |
|------|-------------|-----|-------------|-------------|-------------|---|
| 0    | 0.05896000  | ... | 0.05926000  | 0.05928000  | 0.05855000  |   |
| 1    | 0.00237500  | ... | 0.00233700  | 0.00237900  | 0.00230800  |   |
| 2    | 0.00768800  | ... | 0.00769500  | 0.00770000  | 0.00758400  |   |
| 3    | 0.00025800  | ... | 0.00025790  | 0.00025870  | 0.00025270  |   |
| 4    | 0.00137900  | ... | 0.00136300  | 0.00138900  | 0.00136300  |   |
| ...  | ...         | ... | ...         | ...         | ...         |   |
| 2301 | 1.01200000  | ... | 1.00900000  | 1.01400000  | 1.00500000  |   |
| 2302 | 0.87470000  | ... | 0.85350000  | 1.10020000  | 0.84160000  |   |
| 2303 | 27.84000000 | ... | 27.75000000 | 35.00000000 | 26.50000000 |   |
| 2304 | 8.98500000  | ... | 8.10300000  | 9.12900000  | 8.10300000  |   |
| 2305 | 0.43770000  | ... | 0.42520000  | 0.50000000  | 0.34800000  |   |

|   | volume         | quoteVolume   | openTime      | closeTime     |
|---|----------------|---------------|---------------|---------------|
| \ |                |               |               |               |
| 0 | 31524.23250000 | 1856.16139678 | 1696487582237 | 1696573982237 |
| 1 | 39971.38300000 | 93.83246224   | 1696487575223 | 1696573975223 |
| 2 | 25358.01400000 | 194.30912816  | 1696487570677 | 1696573970677 |
| 3 | 10370.08000000 | 2.66213069    | 1696487560644 | 1696573960644 |

|      |                   |                    |               |               |
|------|-------------------|--------------------|---------------|---------------|
| 4    | 161.40000000      | 0.22209310         | 1696487570186 | 1696573970186 |
| ...  | ...               | ...                | ...           | ...           |
| 2301 | 6789.70000000     | 6869.66680000      | 1696469327188 | 1696555727188 |
| 2302 | 39156.70000000    | 33970.05081000     | 1696487579510 | 1696573979510 |
| 2303 | 1203590.00000000  | 33309286.09000000  | 1696487579319 | 1696573979319 |
| 2304 | 17235404.00000000 | 150549174.51700000 | 1696487583201 | 1696573983201 |
| 2305 | 51856.80000000    | 22809.31443000     | 1696487581782 | 1696573981782 |

|      | firstId   | lastId    | count |
|------|-----------|-----------|-------|
| 0    | 423617004 | 423650416 | 33413 |
| 1    | 93710350  | 93719046  | 8697  |
| 2    | 227553771 | 227575151 | 21381 |
| 3    | 45549339  | 45550518  | 1180  |
| 4    | 5403508   | 5403532   | 25    |
| ...  | ...       | ...       | ...   |
| 2301 | 345       | 364       | 20    |
| 2302 | 0         | 108       | 109   |
| 2303 | 0         | 3310      | 3311  |
| 2304 | 0         | 40897     | 40898 |
| 2305 | 0         | 199       | 200   |

[2306 rows x 21 columns]

In [ ]: