

CHAPTER 3

내 코인 잔고와 수익을 계산해보고 차트 데이터도 살펴보기

#본격적으로 코딩이 시작됩니다. 이쯤부터 코딩 초보자 분들 중에는 점점 어려운 부분이 생길 수 있어요. 일단 이해가 안가시더라도 따라서 코딩해보시는걸 추천 드립니다! 지금 당장 이해가 안되셔도 상관 없어요. 포기하지 마세요!

#소스 코드는 실제로 봇을 만드는 챕터 4-4 부터 제공되니 참고하세요!

파이썬 랩퍼 모듈 pyupbit : <https://github.com/sharebook-kr/pyupbit>

[수업목표]

코인 잔고와 수익을 계산해보고 캔들 정보도 살펴봐요!

[수업개요]

가능하시다면 한 줄 한 줄 따라서 코딩하시면서 학습하시는 걸 추천드려요!

```

8
9 my_balances = upbit.get_balances()
10 print(my_balances)
11
12 [{"currency": "KRW", "balance": "3661213.27682834", "locked": "0.0", "avg_buy_price": "0", "avg_buy_price_modified": True, "unit_currency":
13 ["currency": "BTC", "balance": "0.00020695", "locked": "0.0", "avg_buy_price": "48319000", "avg_buy_price_modified": False, "unit_currency"
14 ["currency": "TRX", "balance": "131.83967183", "locked": "0.0", "avg_buy_price": "75.8897", "avg_buy_price_modified": False, "unit_currency":
15
16 [{"currency": "KRW", "balance": "9.65019837", "locked": "0.0", "avg_buy_price": "0", "avg_buy_price_modified": False, "unit_currency": "KRW"}]
17
18
19
20
21
22 btc_now_price = pyupbit.get_current_price("KRW-BTC")

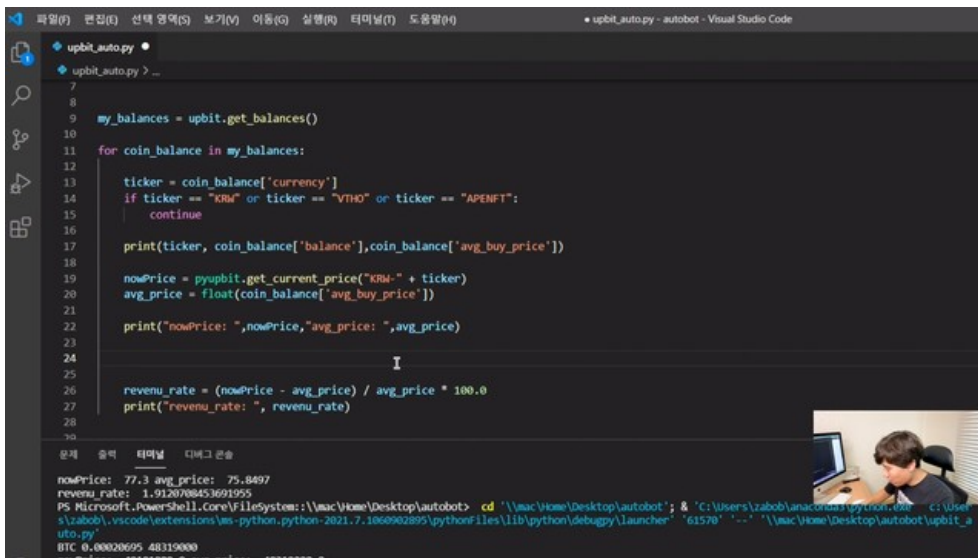
```

```

s:\zaboh\vscode\extensions\ms-python.python-2021.7.100802095\pythonFiles\lib\python\debugpy\launcher "56174" -.- "C:\Users\zaboh\Desktop\autobot\upbit_a
uto.py"
{"uid": "d759254a-3810-4d80-a3a9-ea10fd1e98e2", "side": "ask", "ord type": "market", "price": None, "state": "wait", "market": "KRW-BTC", "created_at":
"2021-08-01T10:17:36+09:00", "volume": "0.00020631", "reserved_fee": "0.0", "remaining_fee": "0.0", "paid_fee": "0.0", "executed volume": "0.0", "trades count": 0}
PS Microsoft.PowerShell.Core\FileSystem::\\MacVme\Desktop\autobot> cd \\MacVme\Desktop\autobot ; & 'C:\Users\zaboh\anaconda3\python
s:\zaboh\vscode\extensions\ms-python.python-2021.7.100802095\pythonFiles\lib\python\debugpy\launcher "54229" -.- "C:\Users\zaboh\Desktop\autobot\upbit_a
uto.py"
{"uid": "40cf85ad-8712-47b0-a64a-b75954a18edf", "side": "bid", "ord type": "limit", "price": "48319000.0", "state": "wait", "market": "KRW-BTC", "created_at":
"2021-08-01T10:53:48+09:00", "volume": "0.00020695", "reserved_fee": "0.00020695", "remaining_fee": "4.999808525", "remaining
08525", "paid_fee": "0.0", "locked": "10004.616858525", "executed volume": "0.0", "trades count": 0}
PS Microsoft.PowerShell.Core\FileSystem::\\MacVme\Desktop\autobot> cd \\MacVme\Desktop\autobot ; & 'C:\Users\zaboh\anaconda3\python
s:\zaboh\vscode\extensions\ms-python.python-2021.7.100802095\pythonFiles\lib\python\debugpy\launcher "53888" -.- "C:\Users\zaboh\Desktop\autobot\upbit_a
uto.py"
[{"currency": "KRW", "balance": "3661213.27682834", "locked": "0.0", "avg_buy_price": "0", "avg_buy_price_modified": True, "unit_currency": "KRW"}, [{"c
urrency": "BTC", "balance": "0.00020695", "locked": "0.0", "avg_buy_price": "48319000", "avg_buy_price_modified": False, "unit_currency": "KRW"}, {"c
urrency": "TRX", "balance": "131.83967183", "locked": "0.0", "avg_buy_price": "75.8897", "avg_buy_price_modified": False, "unit_currency": "KRW"}, {"c

```

1:53 내 코인 잔고를 가져와 봅니다.



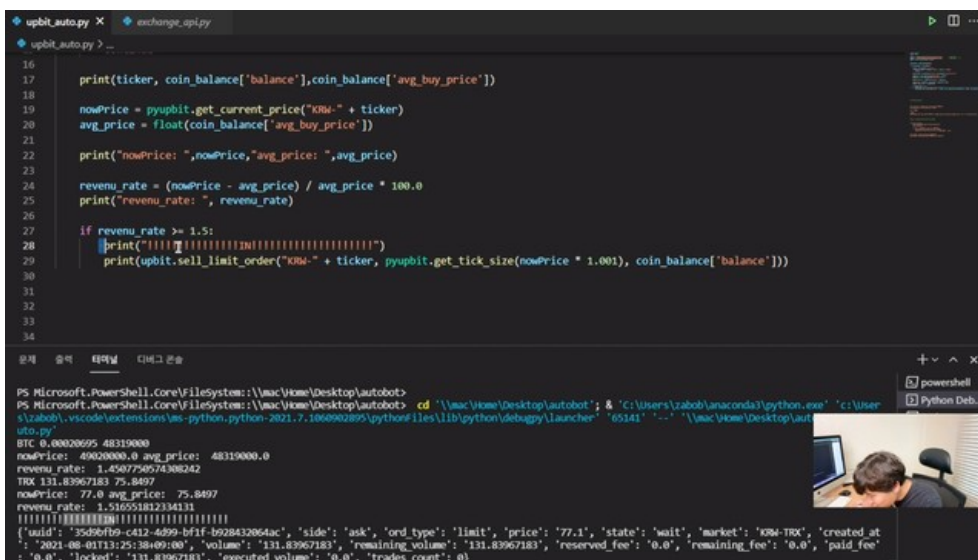
```

7
8
9 my_balances = upbit.get_balances()
10
11 for coin_balance in my_balances:
12     ticker = coin_balance['currency']
13     if ticker == "KRW" or ticker == "VTHD" or ticker == "APENFT":
14         continue
15
16     print(ticker, coin_balance['balance'], coin_balance['avg_buy_price'])
17
18     nowPrice = pyupbit.get_current_price("KRW-" + ticker)
19     avg_price = float(coin_balance['avg_buy_price'])
20
21     print("nowPrice: ", nowPrice, "avg_price: ", avg_price)
22
23
24     I
25
26     revenue_rate = (nowPrice - avg_price) / avg_price * 100.0
27     print("revenue_rate: ", revenue_rate)
28
29
30

```

nowPrice: 77.3 avg_price: 75.8497
revenue_rate: 1.9120708453691955
PS Microsoft.PowerShell.Core\FileSystem::\\Mac\Home\Desktop\autobot> cd "\\Mac\Home\Desktop\autobot"; & 'C:\Users\zabob\anaconda3\python.exe' 'C:\Users\zabob\.vscode\extensions\ms-python.python-2021.7.1060902895\pythonFiles\lib\python\debugpy\launcher' '61570' '--' '\\Mac\Home\Desktop\autobot\upbit_auto.py'
BTC 0.00020695 48319000

9:34 코인별 수익율을 구해 봅니다.



```

16
17 print(ticker, coin_balance['balance'], coin_balance['avg_buy_price'])
18
19 nowPrice = pyupbit.get_current_price("KRW-" + ticker)
20 avg_price = float(coin_balance['avg_buy_price'])
21
22 print("nowPrice: ", nowPrice, "avg_price: ", avg_price)
23
24 revenue_rate = (nowPrice - avg_price) / avg_price * 100.0
25 print("revenue_rate: ", revenue_rate)
26
27 if revenue_rate >= 1.5:
28     print("!!!!!!")
29     print(upbit.sell_limit_order("KRW-" + ticker, pyupbit.get_tick_size(nowPrice * 1.001), coin_balance['balance']))
30
31
32
33
34

```

nowPrice: 49020000.0 avg_price: 48319000.0
revenue_rate: 1.4507750574308242
TRX 131.83967183 75.8497
nowPrice: 77.0 avg_price: 75.8497
revenue_rate: 1.516551812334131
!!!!!!
{'uuid': '35d9bf9-c412-4d99-bf1f-b928432064ac', 'side': 'ask', 'ord_type': 'limit', 'price': '77.1', 'state': 'wait', 'market': 'KRW-TRX', 'created_at': '2021-08-01T13:25:38+09:00', 'volume': '131.83967183', 'remaining_volume': '131.83967183', 'reserved_fee': '0.0', 'remaining_fee': '0.0', 'paid_fee': '0.0', 'locked': '131.83967183', 'executed volume': '0.0', 'trades count': 0}

16:8 코인 지정가 매도를 걸어봅니다.

```

3
4 access = "U8XQ5AGj18UYAC2cFMVzyrMxfm3DgFxoGj1VcV" # 본인 값으로 변경
5 secret = "JkaGm1hXKOAb015sWwW7DIPsR9tG6UP7dL8m" # 본인 값으로 변경
6 upbit = pyupbit.Upbit(access, secret)
7
8
9 tickers = pyupbit.get_tickers("KRW")
10
11 for ticker in tickers:
12     if ticker == "KRW-BTC":
13         df = pyupbit.get_ohlcv(ticker, interval="day")
14         print(df['close'])
15         break
16
17
18

```

```

PS Microsoft.PowerShell.Core\FileSystem::\\Mac\Home\Desktop\autobot> cd "\\Mac\Home\Desktop\autobot"; & "C:\Users\zabob\anaconda3\python.exe" "c:\User
s\zabob\vscode\extensions\ms-python.python-2021.7.1060902895\pythonFiles\lib\python\debugger\launcher" "50855" "-" "\\Mac\Home\Desktop\autobot\upbit_a
uto.py"

```

	open	high	low	T	close	volume	value
2021-01-14 09:00:00	41380000.0	43998000.0	40510000.0	42725000.0	15952.888927	6.754529e+11	
2021-01-15 09:00:00	42787000.0	43159000.0	38690000.0	40952000.0	16278.029157	6.656450e+11	
2021-01-16 09:00:00	40951000.0	41800000.0	39680000.0	40086000.0	10393.350152	4.234730e+11	
2021-01-17 09:00:00	40070000.0	40722000.0	38102000.0	39536000.0	9785.469952	3.852871e+11	
2021-01-18 09:00:00	39536000.0	40999000.0	36692000.0	40000000.0	8374.535245	3.341926e+11	
...	
2021-07-28 09:00:00	45447000.0	47494000.0	45000000.0	46350000.0	11869.717924	5.477173e+11	
2021-07-29 09:00:00	46350000.0	46990000.0	45520000.0	45987000.0	5904.864280	2.721642e+11	
2021-07-30 09:00:00	45936000.0	48661000.0	44450000.0	48555000.0	9277.503403	4.262816e+11	
2021-07-31 09:00:00	48570000.0	48768000.0	47050000.0	47979000.0	5158.394180	2.485582e+11	
2021-08-01 09:00:00	47979000.0	49471000.0	47736000.0	48894000.0	1821.341974	8.860480e+10	

21:20 비트코인의 캔들(차트) 정보를 읽어옵니다.

[다음 수업 예고]

잠 잘때도 일해줄 서버가 필요해요! AWS 아마존 서버 설정 대작전(1)