data[0].T

!pip install alpha_vantage

```
→ Collecting alpha vantage
       Downloading alpha_vantage-3.0.0-py3-none-any.whl.metadata (12 kB)
     Requirement already satisfied: aiohttp in /usr/local/lib/python3.10/dist-packages (from alpha_vantage) (3.11.10)
     Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from alpha vantage) (2.32.3)
     Requirement already satisfied: aiohappyeyeballs>=2.3.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp->alpha_vantage) (2.4.4)
     Requirement already satisfied: aiosignal>=1.1.2 in /usr/local/lib/python3.10/dist-packages (from aiohttp->alpha_vantage) (1.3.2)
     Requirement already satisfied: async-timeout<6.0,>=4.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp->alpha_vantage) (4.0.3)
     Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp->alpha_vantage) (24.3.0)
     Requirement already satisfied: frozenlist>=1.1.1 in /usr/local/lib/python3.10/dist-packages (from aiohttp->alpha_vantage) (1.5.0)
     Requirement already satisfied: multidict<7.0,>=4.5 in /usr/local/lib/python3.10/dist-packages (from aiohttp-valpha_vantage) (6.1.0)
     Requirement already satisfied: propcache>=0.2.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp->alpha_vantage) (0.2.1)
     Requirement already satisfied: yarl<2.0,>=1.17.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp->alpha_vantage) (1.18.3)
     Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->alpha_vantage) (3.4.0
     Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests->alpha vantage) (3.10)
    Requirement already satisfied: urllib3<a>(2.2.3)</a>
Requirement already satisfied: urllib3<a>(2.2.3)</a>
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests->alpha_vantage) (2024.12.14)
     Requirement already satisfied: typing-extensions>=4.1.0 in /usr/local/lib/python3.10/dist-packages (from multidict<7.0,>=4.5->aiohttp->a
     Downloading alpha_vantage-3.0.0-py3-none-any.whl (35 kB)
     Installing collected packages: alpha_vantage
     Successfully installed alpha_vantage-3.0.0
import pandas as pd
from alpha_vantage.fundamentaldata import FundamentalData
API_Key = 'FC87VFHQNVKEF2G5'
df= FundamentalData(key=API_Key,output_format='pandas')
data=df.get balance sheet quarterly('MSFT')
```



date	1970-01-01 00:00:00.000000000	1970-01-01 00:00:00.000000001	1970-01-01 00:00:00.000000002	1970-01-01 00:00:00.000000003	1970-0 00:00:00.00000
fiscalDateEnding	2024-09-30	2024-09-30 2024-03-31		2023-09-30	2023-
reportedCurrency	USD	USD	USD	USD	
totalAssets	523013000000	484275000000	470558000000	445785000000	41197600
totalCurrentAssets	149926000000	147180000000	147393000000 2075860000		18425700
cashAndCashEquivalentsAtCarryingValue	20840000000	19634000000	17305000000	80452000000	3470400
cashAndShortTermInvestments	78428000000	80021000000	81017000000	143951000000	11126200
inventory	1626000000	1304000000	1615000000	3000000000	250000
currentNetReceivables	44148000000	44029000000	42831000000	36953000000	4868800
totalNonCurrentAssets	377887000000	341895000000	327965000000	242699000000	23221900
propertyPlantEquipment	152863000000	121375000000	112308000000	102502000000	9564100
accumulatedDepreciationAmortizationPPE	80517000000	74945000000	72949000000	69486000000	6825100
intangibleAssets	146125000000	147991000000	148827000000	76685000000	7725200
intangibleAssetsExcludingGoodwill	26751000000	28828000000	29896000000	8895000000	93660
goodwill	119374000000	119163000000	118931000000	67790000000	678860
investments	75379000000	69791000000	71482000000	68750000000	955990
longTermInvestments	15778000000	14807000000	13367000000	11423000000	98790
shortTermInvestments	57588000000	60387000000	63712000000	63499000000	765580
otherCurrentAssets	25724000000	21826000000	21930000000	23682000000	218070
otherNonCurrentAssets	37793000000	35551000000	32265000000	32154000000	306010
totalLiabilities	235290000000	231123000000	232290000000	225071000000	2057530
totalCurrentLiabilities	115200000000	118525000000	121016000000	124792000000	1041490
currentAccountsPayable	22768000000	18087000000	17695000000 19307000000		180950
deferredRevenue	111378000000	89666000000	92068000000 98376000000		1076260
currentDebt	2249000000	22749000000	29291000000	29556000000	52470
shortTermDebt	0	20500000000	27041000000	25808000000	
totalNonCurrentLiabilities	120090000000	112598000000	111274000000 100279000000		1016040
capitalLeaseObligations	16361000000	14469000000	14155000000	13487000000	127280
longTermDebt	45117000000	44907000000	47178000000	45694000000	472370
currentLongTermDebt	2249000000	2249000000	2250000000	3748000000	52470
longTermDebtNoncurrent	42868000000	42658000000	44928000000	41946000000	419900
shortLongTermDebtTotal	45117000000	65407000000	74219000000	71502000000	472370
otherCurrentLiabilities	19114000000	18023000000	16362000000	14475000000	147450
otherNonCurrentLiabilities	31165000000	23271000000	20787000000	18634000000	179810
totalShareholderEquity	287723000000	253152000000	238268000000	220714000000	2062230
treasuryStock	None	None	None	None	
retainedEarnings	188929000000	159394000000	145737000000	132143000000	1188480
commonStock	102976000000	99193000000	97480000000	95508000000	937180
commonStockSharesOutstanding	7436000000	7433000000	7432000000	7431000000	74320
8 rows × 60 columns					

```
{\tt from~alpha\_vantage.timeseries~import~TimeSeries}
```

API_Key = 'FC87VFHQNVKEF2G5'

df= TimeSeries(key=API_Key,output_format='pandas')

data=df.get_monthly_adjusted('MSFT')

data[0]



						1 to 25 of 302 entries Filter 🔲 🔞		
date	1. open	2. high	3. low	4. close	5. adjusted close	6. volume	7. dividend amount	
2025-01-14 00:00:00	425.53	434.32	410.72	415.67	415.67	142068468.0	0.0	
2024-12-31 00:00:00	421.57	456.1648	420.66	421.5	421.5	439908245.0	0.0	
2024-11-29 00:00:00	409.01	429.325	405.5713	423.46	423.46	442321341.0	0.83	
2024-10-31 00:00:00	428.45	438.5	406.3	406.35	405.5347	440766715.0	0.0	
2024-09-30 00:00:00	417.91	441.85	400.8	430.3	429.4367	376719438.0	0.0	
2024-08-30 00:00:00	420.785	427.46	385.58	417.14	416.3031	451919023.0	0.75	
2024-07-31 00:00:00	448.66	468.35	412.21	418.35	416.7683	440446499.0	0.0	
2024-06-28 00:00:00	415.525	456.17	408.9234	446.95	445.2601	342370406.0	0.0	
2024-05-31 00:00:00	392.61	433.6	390.31	415.13	413.5604	413810421.0	0.75	
2024-04-30 00:00:00	423.95	429.37	388.03	389.33	387.1716	440119511.0	0.0	
2024-03-28 00:00:00	411.27	430.82	398.39	420.72	418.3876	425101681.0	0.0	
2024-02-29 00:00:00	401.83	420.82	397.22	413.64	411.3469	444203455.0	0.75	
2024-01-31 00:00:00	373.86	415.32	366.5	397.58	394.6531	525975837.0	0.0	
2023-12-29 00:00:00	376.76	378.16	362.9	376.04	373.2717	521914675.0	0.0	
2023-11-30 00:00:00	339.79	384.3	339.65	378.91	376.1205	564165364.0	0.75	
2023-10-31 00:00:00	316.28	346.2	311.215	338.11	334.9413	540963749.0	0.0	
2023-09-29 00:00:00	331.31	340.86	309.45	315.75	312.7909	416768824.0	0.0	
2023-08-31 00:00:00	335.19	338.54	311.5508	327.76	324.6883	479669427.0	0.68	
2023-07-31 00:00:00	339 19	366 78	327 0	335 92	332 0671	666956355 0	0.0	