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import requests

page2=requests.get('http://api.coincap.io/v2/assets')
print(page2)

<Response [200]>

result2=page2.json()

print(result2)

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'670839909.7598002524299263', 'volumeUsd24Hr':  
'7461220.6730355333094823', 'priceUsd': '0.4269966772367131',  
'changePercent24Hr': '-1.4659362041877399', 'vwap24Hr':  
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'306702602.6000000000000000', 'maxSupply': None, 'marketCapUsd':  
'661512963.4552500648489173', 'volumeUsd24Hr':  
'17899035.1323642841311728', 'priceUsd': '2.1568547441313759',  
'changePercent24Hr': '-0.4148096842674631', 'vwap24Hr':  
'2.1732266966674263', 'explorer':  
'https://solscan.io/token/jtojtomepa8beP8AuQc6eXt5FriJwfFMwQx2v2f9mCL'  
}, {'id': 'berachain', 'rank': '88', 'symbol': 'BERA', 'name':  
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'49468924.3134371267815761', 'priceUsd': '6.1427428380120778',  
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'6.1285322936282059', 'explorer': None}, {'id': 'kaia', 'rank': '89',  
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'656238763.0094939548015596', 'volumeUsd24Hr':  
'7645705.8382506495893897', 'priceUsd': '0.1099880453659031',  
'changePercent24Hr': '-0.3176451172023281', 'vwap24Hr':  
'0.1105789931895170', 'explorer': 'https://www.kaiascan.io/'}, {'id':  
'pax-gold', 'rank': '90', 'symbol': 'PAXG', 'name': 'PAX Gold',  
'supply': '210371.2200000000000000', 'maxSupply': None,  
'marketCapUsd': '643003595.7232428383226229', 'volumeUsd24Hr':  
'9985727.1929154822325523', 'priceUsd': '3056.5188323918206983',  
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'3061.1395812504389445', 'explorer':  
'https://etherscan.io/token/0x45804880de22913dafa09f4980848ece6ecbaf78'  
}, {'id': 'ethereum-name-service', 'rank': '91', 'symbol': 'ENS',  
'name': 'Ethereum Name Service', 'supply':  
'35599404.0400000000000000', 'maxSupply':
```

```
'1000000000.000000000000000000', 'marketCapUsd':  
'622309512.8887842479836495', 'volumeUsd24Hr':  
'42948437.1860556580506448', 'priceUsd': '17.4808969327000073',  
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'17.6202409457817555', 'explorer':  
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'}, {'id': 'floki-inu', 'rank': '92', 'symbol': 'FLOKI', 'name':  
'FLOKI', 'supply': '9626637864609.920000000000000000', 'maxSupply':  
'0.000000000000000000', 'marketCapUsd': '609648122.9740364508193702',  
'volumeUsd24Hr': '46326644.4904671651487380', 'priceUsd':  
'0.0000633292881220', 'changePercent24Hr': '1.8286828435684336',  
'vwap24Hr': '0.0000630728855220', 'explorer':  
'https://bscscan.com/token/0xfb5b838b6cfeedc2873ab27866079ac55363d37e'  
}, {'id': 'telcoin', 'rank': '93', 'symbol': 'TEL', 'name': 'Telcoin',  
'supply': '93880083810.970000000000000000', 'maxSupply':  
'10000000000.000000000000000000', 'marketCapUsd':  
'605329326.5488416344677980', 'volumeUsd24Hr':  
'3145010.2853877690367534', 'priceUsd': '0.0064478992985103',  
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'0.0061786582804295', 'explorer':  
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'}, {'id': 'neo', 'rank': '94', 'symbol': 'NEO', 'name': 'Neo',  
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'15683475.4293250506958943', 'priceUsd': '0.4471941556080589',  
'changePercent24Hr': '-5.4020552838932550', 'vwap24Hr':  
'0.4632077342363954', 'explorer':  
'https://etherscan.io/token/0xD533a949740bb3306d119CC777fa900bA034cd52  
'}, {'id': 'kava', 'rank': '96', 'symbol': 'KAVA', 'name': 'Kava',  
'supply': '1082853482.000000000000000000', 'maxSupply': None,  
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'12031365.6015782561503811', 'priceUsd': '0.5255599648664247',  
'changePercent24Hr': '5.1183940916668682', 'vwap24Hr':  
'0.5192812607979941', 'explorer': 'https://www.mintscan.io/kava'},  
{ 'id': 'helium', 'rank': '97', 'symbol': 'HNT', 'name': 'Helium',  
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'223000000.000000000000000000', 'marketCapUsd':  
'569021967.1666243124954117', 'volumeUsd24Hr':  
'719725.6369231306278865', 'priceUsd': '3.1654345287297947',  
'changePercent24Hr': '-1.6072918504139996', 'vwap24Hr':  
'3.1732651963283257', 'explorer': 'https://explorer.helium.com/'},  
{ 'id': 'axie-infinity', 'rank': '98', 'symbol': 'AXS', 'name': 'Axie
```

```

Infinity', 'supply': '159649345.27332318000000000', 'maxSupply': None,
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'0.1532023641783643', 'explorer':
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'555000000.00000000000000000', 'marketCapUsd':
'531719595.6092549310938379', 'volumeUsd24Hr':
'62598253.0780579464497201', 'priceUsd': '1.8281702081518021',
'changePercent24Hr': '-2.0115518491771751', 'vwap24Hr':
'1.8823531825737312', 'explorer':
'https://explorer.solana.com/address/4k3Dyjjvzvp8eMZWUXbBCjEvwSkkk59S5i
CNLY3QrkX6R'}], 'timestamp': 1742483087522}

```

```
import pandas as pd
```

```

cd=result2['data']
adf=pd.DataFrame(cd)
adf.head()

```

	supply \	id	rank	symbol	name	
0	bitcoin	1	BTC	Bitcoin	19839475.00000000000000000	
1	ethereum	2	ETH	Ethereum	120629195.42695649000000000	
2	xrp	3	XRP	XRP	58108919817.00000000000000000	
3	tether	4	USDT	Tether	143653509034.06530000000000000	
4	binance-coin	5	BNB	BNB	144006830.00000000000000000	

	maxSupply	marketCapUsd \
0	21000000.00000000000000000	1699606416616.2133296983059700
1	None	240049264983.5519145414561935
2	100000000000.00000000000000000	144220268135.1206249591841933
3	None	143653577510.7778958801002229
4	144006830.00000000000000000	90010130989.0033583156884400

	volumeUsd24Hr	priceUsd
changePercent24Hr \		

```

0    9688194086.3796406315485425    85667.9129168596109372
1.7346798341063258
1    5478259672.5220127499864314    1989.9765072121929508    -
1.8975329160695057
2    2199891020.7651794207511877    2.4818955263547749    -
2.2001459339201317
3    22771267145.4341647972744695    1.00000004766797070    -
0.0475783452100611
4    642836904.6482892329368638    625.0407080622728680
2.3087763398081210

```

```

                                vwap24Hr
explorer
0    85533.7382785558726814
https://blockchain.info/
1    2025.3801223126678792
https://etherscan.io/
2    2.5034433968031461
https://xrpcharts.ripple.com/#/graph/
3    0.9999777263243381
https://www.omniexplorer.info/asset/31
4    623.0800289125147244
https://etherscan.io/token/0xB8c77482e45F1F44d...

```

```

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

```

```

adf.to_csv(r"C:\Users\Bhoomika.G\OneDrive\Documents\result2.csv")

```

```

adf.head()

```

	id	rank	symbol	name	
supply \					
0	bitcoin	1	BTC	Bitcoin	19839475.000000000000000000
1	ethereum	2	ETH	Ethereum	120629195.426956490000000000
2	xrp	3	XRP	XRP	58108919817.000000000000000000
3	tether	4	USDT	Tether	143653509034.065300000000000000
4	binance-coin	5	BNB	BNB	144006830.000000000000000000

	maxSupply	marketCapUsd \
0	21000000.000000000000000000	1699606416616.2133296983059700
1	None	240049264983.5519145414561935
2	100000000000.000000000000000000	144220268135.1206249591841933
3	None	143653577510.7778958801002229


```
4      144006830.000000000000000000    90010130989.0033583156884400
```

```
                                volumeUsd24Hr                                priceUsd
changePercent24Hr \
0    9688194086.3796406315485425    85667.9129168596109372
1.7346798341063258
1    5478259672.5220127499864314    1989.9765072121929508 -
1.8975329160695057
2    2199891020.7651794207511877      2.4818955263547749 -
2.2001459339201317
3    22771267145.4341647972744695      1.0000004766797070 -
0.0475783452100611
4    642836904.6482892329368638      625.0407080622728680
2.3087763398081210
```

```
                                vwap24Hr
explorer
0    85533.7382785558726814
https://blockchain.info/
1    2025.3801223126678792
https://etherscan.io/
2      2.5034433968031461
https://xrpcharts.ripple.com/#/graph/
3      0.9999777263243381
https://www.omniexplorer.info/asset/31
4    623.0800289125147244
https://etherscan.io/token/0xB8c77482e45F1F44d...
```

```
adf.info()
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 100 entries, 0 to 99
```

```
Data columns (total 12 columns):
```

#	Column	Non-Null Count	Dtype
0	id	100 non-null	object
1	rank	100 non-null	object
2	symbol	100 non-null	object
3	name	100 non-null	object
4	supply	100 non-null	object
5	maxSupply	44 non-null	object
6	marketCapUsd	100 non-null	object
7	volumeUsd24Hr	100 non-null	object
8	priceUsd	100 non-null	object
9	changePercent24Hr	100 non-null	object
10	vwap24Hr	98 non-null	object
11	explorer	89 non-null	object

```
dtypes: object(12)
```

```
memory usage: 9.5+ KB
```

```
adf.isnull()
```

	id	rank	symbol	name	supply	maxSupply	marketCapUsd	\
0	False	False	False	False	False	False	False	
1	False	False	False	False	False	True	False	
2	False	False	False	False	False	False	False	
3	False	False	False	False	False	True	False	
4	False	False	False	False	False	False	False	
..	
95	False	False	False	False	False	False	False	
96	False	False	False	False	False	True	False	
97	False	False	False	False	False	True	False	
98	False	False	False	False	False	False	False	
99	False	False	False	False	False	True	False	

	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr	explorer
0	False	False	False	False	False
1	False	False	False	False	False
2	False	False	False	False	False
3	False	False	False	False	False
4	False	False	False	False	False
..
95	False	False	False	False	False
96	False	False	False	False	False
97	False	False	False	False	False
98	False	False	False	False	False
99	False	False	False	False	False

```
[100 rows x 12 columns]
```

```
adf.isnull().sum()
```

id	0
rank	0
symbol	0
name	0
supply	0
maxSupply	56
marketCapUsd	0
volumeUsd24Hr	0
priceUsd	0
changePercent24Hr	0
vwap24Hr	2
explorer	11
dtype: int64	

```
adf.dropna(inplace=True)  
adf.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
Index: 40 entries, 0 to 98
```

```
Data columns (total 12 columns):
#   Column              Non-Null Count  Dtype
---  -
0   id                   40 non-null    object
1   rank                  40 non-null    object
2   symbol                40 non-null    object
3   name                  40 non-null    object
4   supply                40 non-null    object
5   maxSupply             40 non-null    object
6   marketCapUsd          40 non-null    object
7   volumeUsd24Hr         40 non-null    object
8   priceUsd              40 non-null    object
9   changePercent24Hr     40 non-null    object
10  vwap24Hr              40 non-null    object
11  explorer              40 non-null    object
```

```
dtypes: object(12)
memory usage: 4.1+ KB
```

```
adf.isnull().sum()
```

```
id                0
rank              0
symbol            0
name              0
supply            0
maxSupply         0
marketCapUsd      0
volumeUsd24Hr     0
priceUsd          0
changePercent24Hr 0
vwap24Hr          0
explorer          0
dtype: int64
```

```
adf.describe(include='all')
```

	id	rank	symbol	name	supply	\
count	40	40	40	40	40	
unique	40	40	40	40	40	
top	bitcoin	1	BTC	Bitcoin	19839400.000000000000000000	
freq	1	1	1	1	1	

	maxSupply	marketCapUsd	\
count	40	40	
unique	33	40	
top	21000000.000000000000000000	1704280625841.7085130145616000	
freq	3	1	

	volumeUsd24Hr	priceUsd	\
count	40	40	

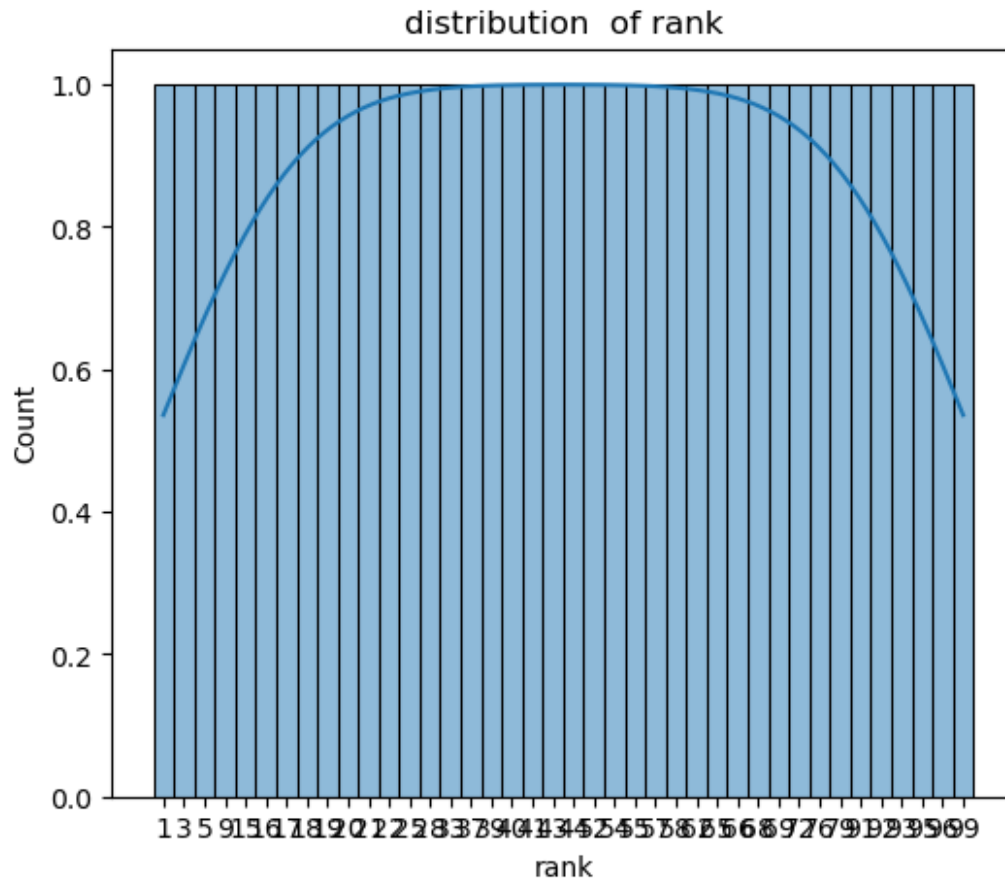
unique	40	40
top	10145644502.1455105855515613	85903.8391202207986640
freq	1	1

	changePercent24Hr	vwap24Hr
explorer		
count	40	40
40		
unique	40	40
40		
top	2.8403099389740314	85201.0651284456121972
https://blockchain.info/		
freq	1	1
1		

visulization

1.histogram

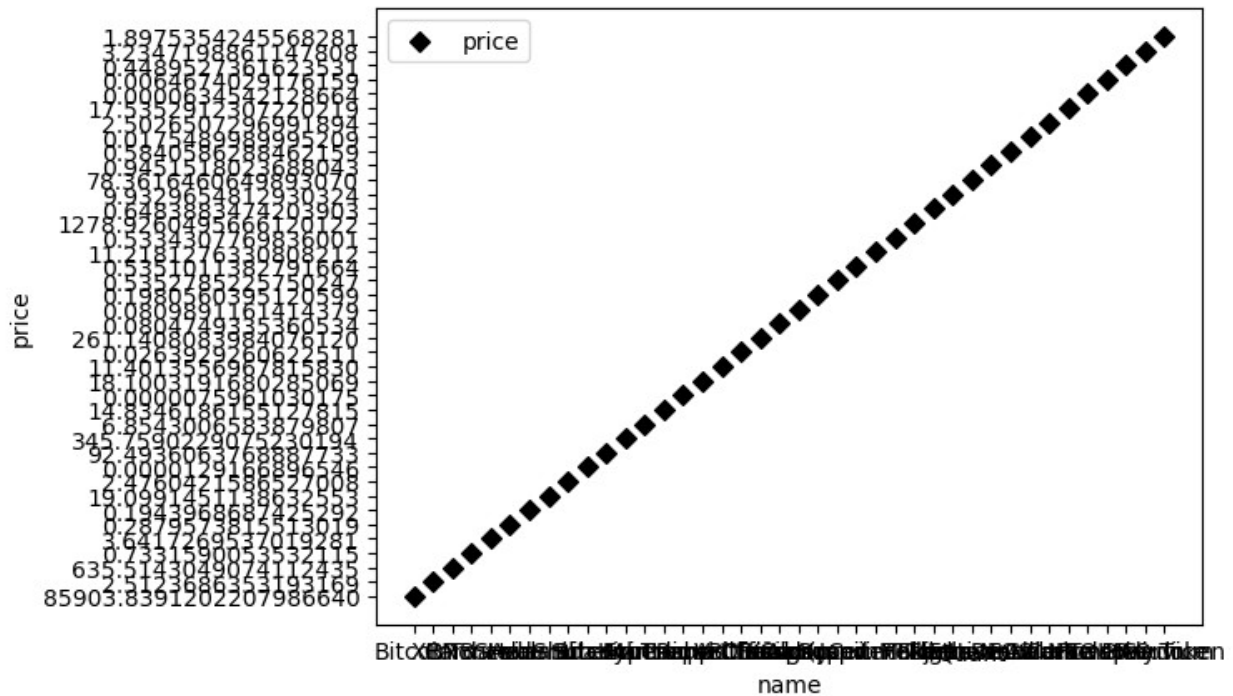
```
plt.figure(figsize =(6,5))
sns.histplot(adf['rank'],kde=True,bins=15)
plt.title('distribution of rank')
plt.show()
```



creat a scatter plot b/w plot price

```
import matplotlib.pyplot as plt
plt.scatter(adf['name'],adf['priceUsd'],color='k',label='price',marker='D')
plt.xlabel('name')
plt.ylabel('price')
plt.legend()
```

<matplotlib.legend.Legend at 0x247ee457140>



`filter` the where the data less than 2sg

```
adf['priceUsd']=adf['priceUsd'].astype(float)
ad=adf[adf['priceUsd']<2]
ad
```

name \	id	rank	symbol
8 cardano	9	ADA	
Cardano			
15 stellar	16	XLM	
Stellar			
16 hedera-hashgraph	17	HBAR	
Hedera			
19 shiba-inu	20	SHIB	Shiba
Inu			
32 pepe	33	PEPE	
Pepe			
39 vechain	40	VET	
VeChain			
42 kaspera	43	KAS	
Kaspera			
43 crypto-com-coin	44	CRO	
Cronos			
51 algorand	52	ALGO	
Algorand			
53 fantom	54	S	Sonic (prev. FTM)

54	jupiter	55	JUP	
Jupiter				
57	fetch	58	FET	Artificial Superintelligence
Alliance				
64	stacks	65	STX	
Stacks				
68	theta	69	THETA	Theta
Network				
71	eos	72	EOS	
EOS				
75	gala	76	GALA	
Gala				
91	floki-inu	92	FLOKI	
FLOKI				
92	telcoin	93	TEL	
Telcoin				
94	curve-dao-token	95	CRV	Curve DAO
Token				
98	raydium	99	RAY	
Raydium				

	supply	maxSupply
\		
8	35234797228.450880000000000000	45000000000.000000000000000000
15	30754554606.449593000000000000	50001806812.000000000000000000
16	41903956526.000000000000000000	50000000000.000000000000000000
19	589252943029396.800000000000000000	589552695333683.000000000000000000
32	420689899653543.560000000000000000	4206900000000000.000000000000000000
39	85985041177.000000000000000000	86712634466.000000000000000000
42	25887954645.697422000000000000	28704026601.000000000000000000
43	25263013692.000000000000000000	30263013692.000000000000000000
51	8514781260.119603000000000000	10000000000.000000000000000000
53	2803634835.526592700000000000	3175000000.000000000000000000
54	2690911111.100000000000000000	3000000000.000000000000000000
57	2520000000.000000000000000000	2630547141.000000000000000000
64	1517742202.535860000000000000	1818000000.000000000000000000
68	1000000000.000000000000000000	1000000000.000000000000000000

71	1553582507.9011000000000000	2100000000.0000000000000000	
75	43599694188.6795700000000000	5000000000.0000000000000000	
91	9626637864609.9200000000000000	0.0000000000000000	
92	93880083810.9700000000000000	10000000000.0000000000000000	
94	1301146243.0000000000000000	3030303030.2990000000000000	
98	290847970.9593340000000000	555000000.0000000000000000	
marketCapUsd		volumeUsd24Hr	priceUsd
\			
8	25832708889.8331404534313780	507527381.3748374098602597	0.733159
15	8856001015.2497548969853459	167493652.0705095787248423	0.287957
16	8145997936.5774718840855592	109188595.1213354157533589	0.194397
19	7611197393.1704128302383453	59999592.3383249479842019	0.000013
32	3195603816.1900544406836923	463763032.5284100221711945	0.000008
39	2269396834.2441772988135447	40333685.6926326478166296	0.026393
42	2083331429.4968648805946244	25747773.1195697791949324	0.080475
43	2046029149.9841238762677268	12005872.9939741319939082	0.080989
51	1686403853.6907952770112349	56748991.8405046166177081	0.198056
53	1500725512.6005469123602177	121453743.8687984373905272	0.535279
54	1439909598.5576663994057870	29030743.0862474458021791	0.535101
57	1344245557.9986722520000000	50374043.6346201381018400	0.533431
64	984086358.5124095734701309	16038916.6835476499278204	0.648388
68	945151802.3688043000000000	23476785.2344194540407966	0.945152
71	907383269.3641818458385864	106736228.3044857996314846	0.584059
75	765130989.6965549717646336	34546464.2256489450331051	0.017549
91	610850728.2487042068810747	54649353.4988751686383453	0.000063
92	607160327.9450925982186664	3058701.5063769717952558	0.006467
94	584153165.9422159741044033	19858284.6935099291393343	0.448953


```
98      551894328.0558118515057571      73586148.8071507276419711      1.897535
```

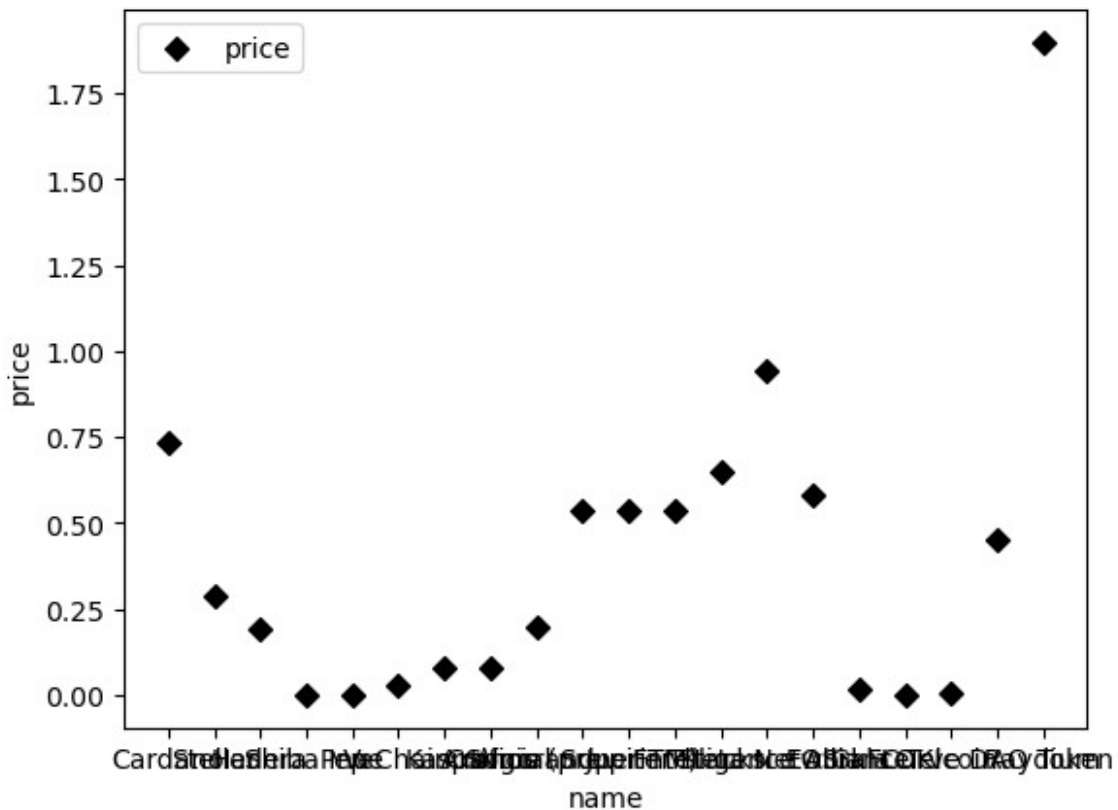
```
      changePercent24Hr      vwap24Hr  \
8      2.5311586722676644      0.7322035012709807
15     3.7894597675161340      0.2883590850471504
16     2.7867477963124153      0.1939893448973065
19     2.6147224627656222      0.0000128033871841
32     4.2140685306834678      0.0000074014846356
39     3.2954032638549051      0.0264357546995426
42     1.9026372443318507      0.0809263590980521
43     2.5707855536965463      0.0804642757530825
51     5.1494457749575937      0.1968365006792353
53     6.0629774759886570      0.5290256986360328
54     3.6509160301455880      0.5342652620521797
57     3.1297372351261187      0.5397344751212573
64     4.2407804113637301      0.6484722704257539
68     4.2830204851740089      0.9451528341345720
71     1.6734026083674343      0.5763077926984943
75     2.5347339666952950      0.0175032200324268
91     4.6677486366270594      0.0000625766773996
92     20.1242742174595808      0.0059476227665936
94     -3.2417705957076736      0.4681024140371408
98     2.9951407337300810      1.8745983524101705
```

```
explorer
8      https://cardanoexplorer.com/
15     https://dashboard.stellar.org/
16     https://app.dragonglass.me/hedera/home
19     https://etherscan.io/token/0x95ad61b0a150d7921...
32     https://etherscan.io/token/0x6982508145454ce32...
39     https://explore.veforge.com/
42     https://explorer.kaspa.org/
43     https://etherscan.io/token/0xa0b73e1ff0b80914a...
51     https://algoexplorer.io/
53     sonicscan.org
54     https://solscan.io/token/JUPyiwrYJFskUPiHa7hke...
57     https://etherscan.io/token/0x1d287cc25dad7ccaf...
64     https://explorer.stacks.co/
68     https://explorer.thetatoken.org/
71     https://bloks.io/
75     https://ethplorer.io/es/address/0x15d4c048f83b...
91     https://bscscan.com/token/0xfb5b838b6cfeedc287...
92     https://etherscan.io/token/0x85e076361cc813a90...
94     https://etherscan.io/token/0xD533a949740bb3306...
98     https://explorer.solana.com/address/4k3DyJzvzp...
```

```
import matplotlib.pyplot as plt
plt.scatter(ad['name'],ad['priceUsd'],color='k',label='price',marker='')
```

```
D')
plt.xlabel('name')
plt.ylabel('price')
plt.legend()

<matplotlib.legend.Legend at 0x247f7484d10>
```



```
subset=ad.loc[2:50,['priceUsd','name']]
print(subset.head(10))
```

	priceUsd	name
8	0.733159	Cardano
15	0.287957	Stellar
16	0.194397	Hedera
19	0.000013	Shiba Inu
32	0.000008	Pepe
39	0.026393	VeChain
42	0.080475	Kaspa
43	0.080989	Cronos

```
plt.figure(figsize=(10,5))
plt.scatter(ad['name'],ad['priceUsd'],color='green',label='price',mark
er='D')
plt.xlabel('name')
```

```
plt.ylabel('price')
plt.legend()

<matplotlib.legend.Legend at 0x247f746f920>
```

