

```

import requests

url =
"https://reuters-business-and-financial-news.p.rapidapi.com/market-
rics/list-rics-by-asset-and-category/1/1"

headers = {
    "x-rapidapi-key":
    "8ee84d9915mshdb6c9d5ee016974p18e1c1jsnac663d17409f",
    "x-rapidapi-host": "reuters-business-and-financial-
news.p.rapidapi.com"
}

response = requests.get(url, headers=headers)

result=response.json()

import pandas as pd
newsdata=pd.DataFrame(result)
newsdata.head()

```

```

    statusCode  marketAsset  marketCategory  \
0            200  Commodities  Agriculture

                                assetData
0  {'typeName': 'Commodity Future', 'rics': ['Cc1...
newsdata.to_csv(r"C:\my pythonfiles")

```

```

-----
-----
PermissionError                                Traceback (most recent call
last)
Cell In[6], line 1
----> 1 newsdata.to_csv(r"C:\my pythonfiles")

```

```

File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\
generic.py:3902, in NDFrame.to_csv(self, path_or_buf, sep, na_rep,
float_format, columns, header, index, index_label, mode, encoding,
compression, quoting, quotechar, lineterminator, chunksize,
date_format, doublequote, escapechar, decimal, errors,
storage_options)
    3891 df = self if isinstance(self, ABCDataFrame) else
self.to_frame()
    3893 formatter = DataFrameFormatter(
    3894     frame=df,
    3895     header=header,
    (...)
    3899     decimal=decimal,
    3900 )
-> 3902 return DataFrameRenderer(formatter).to_csv(

```

```

3903     path_or_buf,
3904     lineterminator=lineterminator,
3905     sep=sep,
3906     encoding=encoding,
3907     errors=errors,
3908     compression=compression,
3909     quoting=quoting,
3910     columns=columns,
3911     index_label=index_label,
3912     mode=mode,
3913     chunksize=chunksize,
3914     quotechar=quotechar,
3915     date_format=date_format,
3916     doublequote=doublequote,
3917     escapechar=escapechar,
3918     storage_options=storage_options,
3919 )

```

File C:\ProgramData\anaconda3\Lib\site-packages\pandas\io\formats\format.py:1152, in DataFrameRenderer.to_csv(self, path_or_buf, encoding, sep, columns, index_label, mode, compression, quoting, quotechar, lineterminator, chunksize, date_format, doublequote, escapechar, errors, storage_options)

```

1131     created_buffer = False
1133     csv_formatter = CSVFormatter(
1134         path_or_buf=path_or_buf,
1135         lineterminator=lineterminator,
1136         (...)
1150         formatter=self.fmt,
1151     )
-> 1152     csv_formatter.save()
1154     if created_buffer:
1155         assert isinstance(path_or_buf, StringIO)

```

File C:\ProgramData\anaconda3\Lib\site-packages\pandas\io\formats\csvs.py:247, in CSVFormatter.save(self)

```

243     """
244     Create the writer & save.
245     """
246     # apply compression and byte/text conversion
--> 247     with get_handle(
248         self.filepath_or_buffer,
249         self.mode,
250         encoding=self.encoding,
251         errors=self.errors,
252         compression=self.compression,
253         storage_options=self.storage_options,
254     ) as handles:
255         # Note: self.encoding is irrelevant here

```

```

256     self.writer = csvlib.writer(
257         handles.handle,
258         lineterminator=self.lineterminator,
259     )
260     quotechar=self.quotechar,
261 )
262 self._save()

```

File C:\ProgramData\anaconda3\Lib\site-packages\pandas\io\common.py:863, in get_handle(path_or_buf, mode, encoding, compression, memory_map, is_text, errors, storage_options)

```

858 elif isinstance(handle, str):
859     # Check whether the filename is to be opened in binary
mode.
860     # Binary mode does not support 'encoding' and 'newline'.
861     if ioargs.encoding and "b" not in ioargs.mode:
862         # Encoding
--> 863         handle = open(
864             handle,
865             ioargs.mode,
866             encoding=ioargs.encoding,
867             errors=errors,
868             newline="",
869         )
870     else:
871         # Binary mode
872         handle = open(handle, ioargs.mode)

```

PermissionError: [Errno 13] Permission denied: 'C:\\my pythonfiles'

```
import requests
```

```
page=requests.get('https://randomfox.ca/floof')
```

```
print(page)
```

```
<Response [200]>
```

```
result=page.json()
```

```
print(result)
```

```
{'image': 'https://randomfox.ca/images/106.jpg', 'link':
'https://randomfox.ca/?i=106'}
```

```
result['image']
```

```
'https://randomfox.ca/images/106.jpg'
```

whether api

```

import requests

page1=requests.get(' http://api.weatherapi.com/v1/current.json?
key=2868f59a243b42588c290454252003&q=Tumkur')
print(page1)

<Response [200]>

result=page1.json()

print(result)

{'location': {'name': 'Tumkur', 'region': 'Karnataka', 'country':
'India', 'lat': 13.3422, 'lon': 77.1017, 'tz_id': 'Asia/Kolkata',
'localtime_epoch': 1742461958, 'localtime': '2025-03-20 14:42'},
'current': {'last_updated_epoch': 1742461200, 'last_updated': '2025-
03-20 14:30', 'temp_c': 34.6, 'temp_f': 94.2, 'is_day': 1,
'condition': {'text': 'Sunny', 'icon':
'//cdn.weatherapi.com/weather/64x64/day/113.png', 'code': 1000},
'wind_mph': 9.4, 'wind_kph': 15.1, 'wind_degree': 113, 'wind_dir':
'ESE', 'pressure_mb': 1011.0, 'pressure_in': 29.85, 'precip_mm': 0.0,
'precip_in': 0.0, 'humidity': 18, 'cloud': 4, 'feelslike_c': 32.7,
'feelslike_f': 90.8, 'windchill_c': 34.6, 'windchill_f': 94.2,
'heatindex_c': 32.7, 'heatindex_f': 90.8, 'dewpoint_c': 6.6,
'dewpoint_f': 43.9, 'vis_km': 10.0, 'vis_miles': 6.0, 'uv': 9.2,
'gust_mph': 10.8, 'gust_kph': 17.4}}

result['location']

{'name': 'Tumkur',
'region': 'Karnataka',
'country': 'India',
'lat': 13.3422,
'lon': 77.1017,
'tz_id': 'Asia/Kolkata',
'localtime_epoch': 1742461958,
'localtime': '2025-03-20 14:42'}

result['current']

{'last_updated_epoch': 1742461200,
'last_updated': '2025-03-20 14:30',
'temp_c': 34.6,
'temp_f': 94.2,
'is_day': 1,
'condition': {'text': 'Sunny',
'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png',
'code': 1000},
'wind_mph': 9.4,
'wind_kph': 15.1,
'wind_degree': 113,

```

```
'wind_dir': 'ESE',
'pressure_mb': 1011.0,
'pressure_in': 29.85,
'precip_mm': 0.0,
'precip_in': 0.0,
'humidity': 18,
'cloud': 4,
'feelslike_c': 32.7,
'feelslike_f': 90.8,
'windchill_c': 34.6,
'windchill_f': 94.2,
'heatindex_c': 32.7,
'heatindex_f': 90.8,
'dewpoint_c': 6.6,
'dewpoint_f': 43.9,
'vis_km': 10.0,
'vis_miles': 6.0,
'uv': 9.2,
'gust_mph': 10.8,
'gust_kph': 17.4}
```

```
page1=requests.get(' http://api.weatherapi.com/v1/forecast.json?
key=2868f59a243b42588c290454252003&q=Tumkur')
print(page1)
```

<Response [200]>

```
result=page1.json()
```

```
print(result)
```

```
{'location': {'name': 'Tumkur', 'region': 'Karnataka', 'country':
'India', 'lat': 13.3422, 'lon': 77.1017, 'tz_id': 'Asia/Kolkata',
'localtime_epoch': 1742462529, 'localtime': '2025-03-20 14:52'},
'current': {'last_updated_epoch': 1742462100, 'last_updated': '2025-
03-20 14:45', 'temp_c': 34.6, 'temp_f': 94.2, 'is_day': 1,
'condition': {'text': 'Sunny', 'icon':
'//cdn.weatherapi.com/weather/64x64/day/113.png', 'code': 1000},
'wind_mph': 9.4, 'wind_kph': 15.1, 'wind_degree': 113, 'wind_dir':
'ESE', 'pressure_mb': 1011.0, 'pressure_in': 29.85, 'precip_mm': 0.0,
'precip_in': 0.0, 'humidity': 18, 'cloud': 4, 'feelslike_c': 32.7,
'feelslike_f': 90.8, 'windchill_c': 34.6, 'windchill_f': 94.2,
'heatindex_c': 32.7, 'heatindex_f': 90.8, 'dewpoint_c': 6.6,
'dewpoint_f': 43.9, 'vis_km': 10.0, 'vis_miles': 6.0, 'uv': 9.2,
'gust_mph': 10.8, 'gust_kph': 17.4}, 'forecast': {'forecastday':
[{'date': '2025-03-20', 'date_epoch': 1742428800, 'day': {'maxtemp_c':
34.7, 'maxtemp_f': 94.4, 'mintemp_c': 21.0, 'mintemp_f': 69.8,
'avgtmp_c': 27.6, 'avgtmp_f': 81.7, 'maxwind_mph': 9.6,
'maxwind_kph': 15.5, 'totalprecip_mm': 0.0, 'totalprecip_in': 0.0,
'totalsnow_cm': 0.0, 'avgvis_km': 10.0, 'avgvis_miles': 6.0,
```

```
'avghumidity': 41, 'daily_will_it_rain': 0, 'daily_chance_of_rain': 0,
'daily_will_it_snow': 0, 'daily_chance_of_snow': 0, 'condition':
{'text': 'Sunny', 'icon':
'//cdn.weatherapi.com/weather/64x64/day/113.png', 'code': 1000}, 'uv':
3.2}, 'astro': {'sunrise': '06:26 AM', 'sunset': '06:32 PM',
'moonrise': '11:30 PM', 'moonset': '10:07 AM', 'moon_phase': 'Waning
Gibbous', 'moon_illumination': 73, 'is_moon_up': 1, 'is_sun_up': 0},
'hour': [{ 'time_epoch': 1742409000, 'time': '2025-03-20 00:00',
'temp_c': 24.6, 'temp_f': 76.3, 'is_day': 0, 'condition': {'text':
'Clear ', 'icon': '//cdn.weatherapi.com/weather/64x64/night/113.png',
'code': 1000}, 'wind_mph': 9.2, 'wind_kph': 14.8, 'wind_degree': 142,
'wind_dir': 'SE', 'pressure_mb': 1014.0, 'pressure_in': 29.96,
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 55,
'cloud': 11, 'feelslike_c': 25.8, 'feelslike_f': 78.4, 'windchill_c':
24.6, 'windchill_f': 76.3, 'heatindex_c': 25.8, 'heatindex_f': 78.4,
'dewpoint_c': 15.1, 'dewpoint_f': 59.2, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 14.1, 'gust_kph': 22.7, 'uv': 0},
{ 'time_epoch': 1742412600, 'time': '2025-03-20 01:00', 'temp_c': 23.8,
'temp_f': 74.8, 'is_day': 0, 'condition': {'text': 'Clear ', 'icon':
'//cdn.weatherapi.com/weather/64x64/night/113.png', 'code': 1000},
'wind_mph': 7.6, 'wind_kph': 12.2, 'wind_degree': 157, 'wind_dir':
'SSE', 'pressure_mb': 1014.0, 'pressure_in': 29.95, 'precip_mm': 0.0,
'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 60, 'cloud': 10,
'feelslike_c': 25.3, 'feelslike_f': 77.6, 'windchill_c': 23.8,
'windchill_f': 74.8, 'heatindex_c': 25.3, 'heatindex_f': 77.6,
'dewpoint_c': 15.6, 'dewpoint_f': 60.1, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 11.7, 'gust_kph': 18.9, 'uv': 0},
{ 'time_epoch': 1742416200, 'time': '2025-03-20 02:00', 'temp_c': 23.0,
'temp_f': 73.5, 'is_day': 0, 'condition': {'text': 'Clear ', 'icon':
'//cdn.weatherapi.com/weather/64x64/night/113.png', 'code': 1000},
'wind_mph': 7.2, 'wind_kph': 11.5, 'wind_degree': 153, 'wind_dir':
'SSE', 'pressure_mb': 1014.0, 'pressure_in': 29.94, 'precip_mm': 0.0,
'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 63, 'cloud': 6,
'feelslike_c': 25.0, 'feelslike_f': 76.9, 'windchill_c': 23.0,
'windchill_f': 73.5, 'heatindex_c': 25.0, 'heatindex_f': 76.9,
'dewpoint_c': 15.7, 'dewpoint_f': 60.2, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 11.5, 'gust_kph': 18.4, 'uv': 0},
{ 'time_epoch': 1742419800, 'time': '2025-03-20 03:00', 'temp_c': 22.4,
'temp_f': 72.3, 'is_day': 0, 'condition': {'text': 'Clear ', 'icon':
'//cdn.weatherapi.com/weather/64x64/night/113.png', 'code': 1000},
'wind_mph': 7.4, 'wind_kph': 11.9, 'wind_degree': 145, 'wind_dir':
'SE', 'pressure_mb': 1014.0, 'pressure_in': 29.95, 'precip_mm': 0.0,
'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 68, 'cloud': 6,
'feelslike_c': 24.7, 'feelslike_f': 76.5, 'windchill_c': 22.4,
'windchill_f': 72.3, 'heatindex_c': 24.7, 'heatindex_f': 76.5,
'dewpoint_c': 16.2, 'dewpoint_f': 61.2, 'will_it_rain': 0,
```

```
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km': 10.0, 'vis_miles': 6.0, 'gust_mph': 11.9, 'gust_kph': 19.1, 'uv': 0}, {'time_epoch': 1742423400, 'time': '2025-03-20 04:00', 'temp_c': 21.9, 'temp_f': 71.4, 'is_day': 0, 'condition': {'text': 'Clear', 'icon': '//cdn.weatherapi.com/weather/64x64/night/113.png', 'code': 1000}, 'wind_mph': 7.8, 'wind_kph': 12.6, 'wind_degree': 145, 'wind_dir': 'SE', 'pressure_mb': 1014.0, 'pressure_in': 29.96, 'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 72, 'cloud': 6, 'feelslike_c': 21.9, 'feelslike_f': 71.4, 'windchill_c': 21.9, 'windchill_f': 71.4, 'heatindex_c': 24.5, 'heatindex_f': 76.1, 'dewpoint_c': 16.6, 'dewpoint_f': 61.9, 'will_it_rain': 0, 'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km': 10.0, 'vis_miles': 6.0, 'gust_mph': 12.7, 'gust_kph': 20.5, 'uv': 0}, {'time_epoch': 1742427000, 'time': '2025-03-20 05:00', 'temp_c': 21.5, 'temp_f': 70.6, 'is_day': 0, 'condition': {'text': 'Clear', 'icon': '//cdn.weatherapi.com/weather/64x64/night/113.png', 'code': 1000}, 'wind_mph': 7.2, 'wind_kph': 11.5, 'wind_degree': 143, 'wind_dir': 'SE', 'pressure_mb': 1015.0, 'pressure_in': 29.98, 'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 74, 'cloud': 6, 'feelslike_c': 21.5, 'feelslike_f': 70.6, 'windchill_c': 21.5, 'windchill_f': 70.6, 'heatindex_c': 24.4, 'heatindex_f': 75.9, 'dewpoint_c': 16.7, 'dewpoint_f': 62.1, 'will_it_rain': 0, 'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km': 10.0, 'vis_miles': 6.0, 'gust_mph': 12.0, 'gust_kph': 19.3, 'uv': 0}, {'time_epoch': 1742430600, 'time': '2025-03-20 06:00', 'temp_c': 21.0, 'temp_f': 69.8, 'is_day': 1, 'condition': {'text': 'Sunny', 'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png', 'code': 1000}, 'wind_mph': 5.8, 'wind_kph': 9.4, 'wind_degree': 142, 'wind_dir': 'SE', 'pressure_mb': 1016.0, 'pressure_in': 30.0, 'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 76, 'cloud': 6, 'feelslike_c': 21.0, 'feelslike_f': 69.8, 'windchill_c': 21.0, 'windchill_f': 69.8, 'heatindex_c': 24.3, 'heatindex_f': 75.8, 'dewpoint_c': 16.6, 'dewpoint_f': 61.8, 'will_it_rain': 0, 'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km': 10.0, 'vis_miles': 6.0, 'gust_mph': 10.2, 'gust_kph': 16.4, 'uv': 0.0}, {'time_epoch': 1742434200, 'time': '2025-03-20 07:00', 'temp_c': 22.7, 'temp_f': 72.8, 'is_day': 1, 'condition': {'text': 'Sunny', 'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png', 'code': 1000}, 'wind_mph': 7.2, 'wind_kph': 11.5, 'wind_degree': 147, 'wind_dir': 'SSE', 'pressure_mb': 1017.0, 'pressure_in': 30.02, 'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 68, 'cloud': 6, 'feelslike_c': 24.8, 'feelslike_f': 76.7, 'windchill_c': 22.7, 'windchill_f': 72.8, 'heatindex_c': 24.8, 'heatindex_f': 76.7, 'dewpoint_c': 16.4, 'dewpoint_f': 61.5, 'will_it_rain': 0, 'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km': 10.0, 'vis_miles': 6.0, 'gust_mph': 9.6, 'gust_kph': 15.4, 'uv': 0.7}, {'time_epoch': 1742437800, 'time': '2025-03-20 08:00', 'temp_c': 25.3, 'temp_f': 77.5, 'is_day': 1, 'condition': {'text': 'Sunny', 'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png', 'code': 1000},
```

```
'wind_mph': 8.7, 'wind_kph': 14.0, 'wind_degree': 152, 'wind_dir':  
'SSE', 'pressure_mb': 1017.0, 'pressure_in': 30.03, 'precip_mm': 0.0,  
'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 58, 'cloud': 5,  
'feelslike_c': 26.4, 'feelslike_f': 79.5, 'windchill_c': 25.3,  
'windchill_f': 77.5, 'heatindex_c': 26.4, 'heatindex_f': 79.5,  
'dewpoint_c': 16.4, 'dewpoint_f': 61.5, 'will_it_rain': 0,  
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':  
10.0, 'vis_miles': 6.0, 'gust_mph': 10.0, 'gust_kph': 16.2, 'uv':  
2.8}, {'time_epoch': 1742441400, 'time': '2025-03-20 09:00', 'temp_c':  
27.7, 'temp_f': 81.8, 'is_day': 1, 'condition': {'text': 'Sunny',  
'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png', 'code':  
1000}, 'wind_mph': 8.7, 'wind_kph': 14.0, 'wind_degree': 154,  
'wind_dir': 'SSE', 'pressure_mb': 1017.0, 'pressure_in': 30.03,  
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 49,  
'cloud': 3, 'feelslike_c': 28.2, 'feelslike_f': 82.8, 'windchill_c':  
27.7, 'windchill_f': 81.8, 'heatindex_c': 28.2, 'heatindex_f': 82.8,  
'dewpoint_c': 15.9, 'dewpoint_f': 60.5, 'will_it_rain': 0,  
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':  
10.0, 'vis_miles': 6.0, 'gust_mph': 10.0, 'gust_kph': 16.2, 'uv':  
6.2}, {'time_epoch': 1742445000, 'time': '2025-03-20 10:00', 'temp_c':  
29.9, 'temp_f': 85.8, 'is_day': 1, 'condition': {'text': 'Sunny',  
'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png', 'code':  
1000}, 'wind_mph': 9.4, 'wind_kph': 15.1, 'wind_degree': 149,  
'wind_dir': 'SSE', 'pressure_mb': 1016.0, 'pressure_in': 30.01,  
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 39,  
'cloud': 9, 'feelslike_c': 29.8, 'feelslike_f': 85.7, 'windchill_c':  
29.9, 'windchill_f': 85.7, 'heatindex_c': 29.8, 'heatindex_f': 85.7,  
'dewpoint_c': 14.4, 'dewpoint_f': 57.9, 'will_it_rain': 0,  
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':  
10.0, 'vis_miles': 6.0, 'gust_mph': 10.8, 'gust_kph': 17.4, 'uv':  
10.1}, {'time_epoch': 1742448600, 'time': '2025-03-20 11:00',  
'temp_c': 31.6, 'temp_f': 88.9, 'is_day': 1, 'condition': {'text':  
'Sunny', 'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png',  
'code': 1000}, 'wind_mph': 9.4, 'wind_kph': 15.1, 'wind_degree': 137,  
'wind_dir': 'SE', 'pressure_mb': 1015.0, 'pressure_in': 29.98,  
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 31,  
'cloud': 5, 'feelslike_c': 30.9, 'feelslike_f': 87.5, 'windchill_c':  
31.6, 'windchill_f': 88.9, 'heatindex_c': 30.9, 'heatindex_f': 87.5,  
'dewpoint_c': 12.3, 'dewpoint_f': 54.1, 'will_it_rain': 0,  
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':  
10.0, 'vis_miles': 6.0, 'gust_mph': 10.8, 'gust_kph': 17.4, 'uv':  
13.0}, {'time_epoch': 1742452200, 'time': '2025-03-20 12:00',  
'temp_c': 33.1, 'temp_f': 91.6, 'is_day': 1, 'condition': {'text':  
'Sunny', 'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png',  
'code': 1000}, 'wind_mph': 9.6, 'wind_kph': 15.5, 'wind_degree': 125,  
'wind_dir': 'SE', 'pressure_mb': 1014.0, 'pressure_in': 29.93,  
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 25,  
'cloud': 7, 'feelslike_c': 31.7, 'feelslike_f': 89.0, 'windchill_c':  
33.1, 'windchill_f': 91.6, 'heatindex_c': 31.7, 'heatindex_f': 89.0,
```



```
'dewpoint_c': 10.2, 'dewpoint_f': 50.3, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 11.1, 'gust_kph': 17.8, 'uv':
14.0}, {'time_epoch': 1742455800, 'time': '2025-03-20 13:00',
'temp_c': 34.1, 'temp_f': 93.3, 'is_day': 1, 'condition': {'text':
'Sunny', 'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png',
'code': 1000}, 'wind_mph': 9.6, 'wind_kph': 15.5, 'wind_degree': 116,
'wind_dir': 'ESE', 'pressure_mb': 1012.0, 'pressure_in': 29.88,
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 20,
'cloud': 6, 'feelslike_c': 32.1, 'feelslike_f': 89.8, 'windchill_c':
34.1, 'windchill_f': 93.3, 'heatindex_c': 32.1, 'heatindex_f': 89.8,
'dewpoint_c': 8.2, 'dewpoint_f': 46.7, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 11.1, 'gust_kph': 17.8, 'uv':
12.5}, {'time_epoch': 1742459400, 'time': '2025-03-20 14:00',
'temp_c': 34.6, 'temp_f': 94.2, 'is_day': 1, 'condition': {'text':
'Sunny', 'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png',
'code': 1000}, 'wind_mph': 9.4, 'wind_kph': 15.1, 'wind_degree': 113,
'wind_dir': 'ESE', 'pressure_mb': 1011.0, 'pressure_in': 29.85,
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 18,
'cloud': 4, 'feelslike_c': 32.7, 'feelslike_f': 90.8, 'windchill_c':
34.6, 'windchill_f': 94.2, 'heatindex_c': 32.7, 'heatindex_f': 90.8,
'dewpoint_c': 6.6, 'dewpoint_f': 43.9, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 10.8, 'gust_kph': 17.4, 'uv':
9.2}, {'time_epoch': 1742463000, 'time': '2025-03-20 15:00', 'temp_c':
34.7, 'temp_f': 94.4, 'is_day': 1, 'condition': {'text': 'Sunny',
'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png', 'code':
1000}, 'wind_mph': 8.9, 'wind_kph': 14.4, 'wind_degree': 115,
'wind_dir': 'ESE', 'pressure_mb': 1010.0, 'pressure_in': 29.82,
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 16,
'cloud': 4, 'feelslike_c': 32.8, 'feelslike_f': 91.0, 'windchill_c':
34.7, 'windchill_f': 94.4, 'heatindex_c': 32.8, 'heatindex_f': 91.0,
'dewpoint_c': 5.5, 'dewpoint_f': 41.9, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 10.3, 'gust_kph': 16.6, 'uv':
5.3}, {'time_epoch': 1742466600, 'time': '2025-03-20 16:00', 'temp_c':
34.3, 'temp_f': 93.8, 'is_day': 1, 'condition': {'text': 'Sunny',
'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png', 'code':
1000}, 'wind_mph': 8.9, 'wind_kph': 14.4, 'wind_degree': 118,
'wind_dir': 'ESE', 'pressure_mb': 1010.0, 'pressure_in': 29.81,
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 16,
'cloud': 3, 'feelslike_c': 32.4, 'feelslike_f': 90.3, 'windchill_c':
34.3, 'windchill_f': 93.8, 'heatindex_c': 32.4, 'heatindex_f': 90.3,
'dewpoint_c': 4.8, 'dewpoint_f': 40.7, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 10.3, 'gust_kph': 16.6, 'uv':
2.1}, {'time_epoch': 1742470200, 'time': '2025-03-20 17:00', 'temp_c':
33.5, 'temp_f': 92.2, 'is_day': 1, 'condition': {'text': 'Sunny',
```

```
'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png', 'code':  
1000}, 'wind_mph': 9.2, 'wind_kph': 14.8, 'wind_degree': 121,  
'wind_dir': 'ESE', 'pressure_mb': 1010.0, 'pressure_in': 29.82,  
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 16,  
'cloud': 3, 'feelslike_c': 31.4, 'feelslike_f': 88.5, 'windchill_c':  
33.5, 'windchill_f': 92.2, 'heatindex_c': 31.4, 'heatindex_f': 88.5,  
'dewpoint_c': 4.4, 'dewpoint_f': 39.9, 'will_it_rain': 0,  
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':  
10.0, 'vis_miles': 6.0, 'gust_mph': 11.1, 'gust_kph': 17.9, 'uv':  
0.5}, {'time_epoch': 1742473800, 'time': '2025-03-20 18:00', 'temp_c':  
30.3, 'temp_f': 86.5, 'is_day': 1, 'condition': {'text': 'Sunny',  
'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png', 'code':  
1000}, 'wind_mph': 8.5, 'wind_kph': 13.7, 'wind_degree': 125,  
'wind_dir': 'SE', 'pressure_mb': 1011.0, 'pressure_in': 29.86,  
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 19,  
'cloud': 3, 'feelslike_c': 28.1, 'feelslike_f': 82.5, 'windchill_c':  
30.3, 'windchill_f': 86.5, 'heatindex_c': 28.1, 'heatindex_f': 82.5,  
'dewpoint_c': 4.5, 'dewpoint_f': 40.1, 'will_it_rain': 0,  
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':  
10.0, 'vis_miles': 6.0, 'gust_mph': 16.0, 'gust_kph': 25.8, 'uv':  
0.0}, {'time_epoch': 1742477400, 'time': '2025-03-20 19:00', 'temp_c':  
28.5, 'temp_f': 83.4, 'is_day': 0, 'condition': {'text': 'Clear ',  
'icon': '//cdn.weatherapi.com/weather/64x64/night/113.png', 'code':  
1000}, 'wind_mph': 8.7, 'wind_kph': 14.0, 'wind_degree': 131,  
'wind_dir': 'SE', 'pressure_mb': 1012.0, 'pressure_in': 29.89,  
'precip_mm': 0.0, 'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 21,  
'cloud': 3, 'feelslike_c': 26.6, 'feelslike_f': 79.8, 'windchill_c':  
28.5, 'windchill_f': 83.4, 'heatindex_c': 26.6, 'heatindex_f': 79.8,  
'dewpoint_c': 4.1, 'dewpoint_f': 39.3, 'will_it_rain': 0,  
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':  
10.0, 'vis_miles': 6.0, 'gust_mph': 18.3, 'gust_kph': 29.5, 'uv': 0},  
{ 'time_epoch': 1742481000, 'time': '2025-03-20 20:00', 'temp_c': 27.5,  
'temp_f': 81.5, 'is_day': 0, 'condition': {'text': 'Clear ', 'icon':  
'//cdn.weatherapi.com/weather/64x64/night/113.png', 'code': 1000},  
'wind_mph': 8.5, 'wind_kph': 13.7, 'wind_degree': 137, 'wind_dir':  
'SE', 'pressure_mb': 1013.0, 'pressure_in': 29.92, 'precip_mm': 0.0,  
'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 23, 'cloud': 3,  
'feelslike_c': 25.9, 'feelslike_f': 78.7, 'windchill_c': 27.5,  
'windchill_f': 81.5, 'heatindex_c': 25.9, 'heatindex_f': 78.7,  
'dewpoint_c': 4.6, 'dewpoint_f': 40.3, 'will_it_rain': 0,  
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':  
10.0, 'vis_miles': 6.0, 'gust_mph': 17.9, 'gust_kph': 28.7, 'uv': 0},  
{ 'time_epoch': 1742484600, 'time': '2025-03-20 21:00', 'temp_c': 26.4,  
'temp_f': 79.5, 'is_day': 0, 'condition': {'text': 'Clear ', 'icon':  
'//cdn.weatherapi.com/weather/64x64/night/113.png', 'code': 1000},  
'wind_mph': 8.3, 'wind_kph': 13.3, 'wind_degree': 139, 'wind_dir':  
'SE', 'pressure_mb': 1014.0, 'pressure_in': 29.94, 'precip_mm': 0.0,  
'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 27, 'cloud': 3,  
'feelslike_c': 25.4, 'feelslike_f': 77.7, 'windchill_c': 26.4,
```

```
'windchill_f': 79.5, 'heatindex_c': 25.4, 'heatindex_f': 77.7,
'dewpoint_c': 5.9, 'dewpoint_f': 42.7, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 17.4, 'gust_kph': 28.0, 'uv': 0},
{'time_epoch': 1742488200, 'time': '2025-03-20 22:00', 'temp_c': 25.4,
'temp_f': 77.7, 'is_day': 0, 'condition': {'text': 'Clear ', 'icon':
'//cdn.weatherapi.com/weather/64x64/night/113.png', 'code': 1000},
'wind_mph': 8.1, 'wind_kph': 13.0, 'wind_degree': 137, 'wind_dir':
'SE', 'pressure_mb': 1014.0, 'pressure_in': 29.95, 'precip_mm': 0.0,
'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 31, 'cloud': 3,
'feelslike_c': 25.0, 'feelslike_f': 77.1, 'windchill_c': 25.4,
'windchill_f': 77.7, 'heatindex_c': 25.0, 'heatindex_f': 77.1,
'dewpoint_c': 7.1, 'dewpoint_f': 44.9, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 16.0, 'gust_kph': 25.8, 'uv': 0},
{'time_epoch': 1742491800, 'time': '2025-03-20 23:00', 'temp_c': 24.7,
'temp_f': 76.4, 'is_day': 0, 'condition': {'text': 'Clear ', 'icon':
'//cdn.weatherapi.com/weather/64x64/night/113.png', 'code': 1000},
'wind_mph': 4.9, 'wind_kph': 7.9, 'wind_degree': 168, 'wind_dir':
'SSE', 'pressure_mb': 1015.0, 'pressure_in': 29.97, 'precip_mm': 0.0,
'precip_in': 0.0, 'snow_cm': 0.0, 'humidity': 37, 'cloud': 3,
'feelslike_c': 25.0, 'feelslike_f': 77.0, 'windchill_c': 24.7,
'windchill_f': 76.4, 'heatindex_c': 25.0, 'heatindex_f': 77.0,
'dewpoint_c': 9.1, 'dewpoint_f': 48.4, 'will_it_rain': 0,
'chance_of_rain': 0, 'will_it_snow': 0, 'chance_of_snow': 0, 'vis_km':
10.0, 'vis_miles': 6.0, 'gust_mph': 8.7, 'gust_kph': 14.0, 'uv':
0}}]]}}}
```

```
result['location']
```

```
{'name': 'Tumkur',
'region': 'Karnataka',
'country': 'India',
'lat': 13.3422,
'lon': 77.1017,
'tz_id': 'Asia/Kolkata',
'localtime_epoch': 1742462529,
'localtime': '2025-03-20 14:52'}
```

```
import requests
page1=requests.get('https://api.coincap.io/v2/assets')
print(page1)
result=page1.json()
print(result)
```

```
<Response [200]>
{'data': [{'id': 'bitcoin', 'rank': '1', 'symbol': 'BTC', 'name':
'Bitcoin', 'supply': '19839365.000000000000000000', 'maxSupply':
'21000000.000000000000000000', 'marketCapUsd':
'1706037786873.7106198404606770', 'volumeUsd24Hr':
```

```
'10147436409.2559050493010130', 'priceUsd': '85992.5600881737202698',  
'changePercent24Hr': '3.0207804365478960', 'vwap24Hr':  
'85201.0651284456121972', 'explorer': 'https://blockchain.info/'}},  
{'id': 'ethereum', 'rank': '2', 'symbol': 'ETH', 'name': 'Ethereum',  
'supply': '120629195.4269564900000000', 'maxSupply': None,  
'marketCapUsd': '242487511605.5840652354477185', 'volumeUsd24Hr':  
'6630547626.9428484305539245', 'priceUsd': '2010.1892476968010920',  
'changePercent24Hr': '3.5895602869021197', 'vwap24Hr':  
'2023.0357853491439004', 'explorer': 'https://etherscan.io/'}, {'id':  
'xrp', 'rank': '3', 'symbol': 'XRP', 'name': 'XRP', 'supply':  
'58108919817.0000000000000000', 'maxSupply':  
'100000000000.0000000000000000', 'marketCapUsd':  
'145943038409.5955199789646773', 'volumeUsd24Hr':  
'3364865466.6031361177284420', 'priceUsd': '2.5115427867048269',  
'changePercent24Hr': '8.7077081319647885', 'vwap24Hr':  
'2.4898083714762087', 'explorer':  
'https://xrpxcharts.ripple.com/#/graph/'}, {'id': 'tether', 'rank':  
'4', 'symbol': 'USDT', 'name': 'Tether', 'supply':  
'143653509034.0653000000000000', 'maxSupply': None, 'marketCapUsd':  
'143731287321.9458584928698058', 'volumeUsd24Hr':  
'24679907696.7320083487682004', 'priceUsd': '1.0005414297806127',  
'changePercent24Hr': '0.1585142223874443', 'vwap24Hr':  
'0.9999677996084417', 'explorer':  
'https://www.omniexplorer.info/asset/31'}, {'id': 'binance-coin',  
'rank': '5', 'symbol': 'BNB', 'name': 'BNB', 'supply':  
'144006830.0000000000000000', 'maxSupply':  
'144006830.0000000000000000', 'marketCapUsd':  
'91553590449.2327638680128100', 'volumeUsd24Hr':  
'549831147.4952279601138127', 'priceUsd': '635.7586681772855070',  
'changePercent24Hr': '3.4837381727311272', 'vwap24Hr':  
'617.6091689478402690', 'explorer':  
'https://etherscan.io/token/0xB8c77482e45F1F44dE1745F52C74426C631bDD52  
'}, {'id': 'solana', 'rank': '6', 'symbol': 'SOL', 'name': 'Solana',  
'supply': '510156120.1777282000000000', 'maxSupply': None,  
'marketCapUsd': '68143607065.9391204563876242', 'volumeUsd24Hr':  
'1399604518.5598012266994699', 'priceUsd': '133.5740264023476758',  
'changePercent24Hr': '5.7727112237517769', 'vwap24Hr':  
'131.8182369120447460', 'explorer': 'https://explorer.solana.com/'},  
{'id': 'usd-coin', 'rank': '7', 'symbol': 'USDC', 'name': 'USDC',  
'supply': '59215884603.4704800000000000', 'maxSupply': None,  
'marketCapUsd': '59222319455.2876519607537838', 'volumeUsd24Hr':  
'6991589111.9418592461474776', 'priceUsd': '1.0001086676634194',  
'changePercent24Hr': '0.0057535955276545', 'vwap24Hr':  
'0.9998569744587769', 'explorer':  
'https://etherscan.io/token/0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48  
'}, {'id': 'dogecoin', 'rank': '8', 'symbol': 'DOGE', 'name':  
'Dogecoin', 'supply': '148503686383.7052000000000000', 'maxSupply':  
None, 'marketCapUsd': '25948400034.7338915750734867', 'volumeUsd24Hr':  
'427969831.8992198622278203', 'priceUsd': '0.1747323629912336',
```

```
'changePercent24Hr': '4.1636513209025773', 'vwap24Hr':  
'0.1733576565824764', 'explorer':  
'http://dogechain.info/chain/Dogecoin'}, {'id': 'cardano', 'rank':  
'9', 'symbol': 'ADA', 'name': 'Cardano', 'supply':  
'35234797228.4508800000000000', 'maxSupply':  
'45000000000.0000000000000000', 'marketCapUsd':  
'25850562480.0247959379789909', 'volumeUsd24Hr':  
'507475799.2796335510077203', 'priceUsd': '0.7336657087145477',  
'changePercent24Hr': '2.6719173516091754', 'vwap24Hr':  
'0.7322035012709807', 'explorer': 'https://cardanoexplorer.com/'},  
{ 'id': 'tron', 'rank': '10', 'symbol': 'TRX', 'name': 'TRON',  
'supply': '95016549718.9767000000000000', 'maxSupply': None,  
'marketCapUsd': '21812045114.3617236535327735', 'volumeUsd24Hr':  
'302325577.5972324129643512', 'priceUsd': '0.2295604837144010',  
'changePercent24Hr': '-0.0420638407227287', 'vwap24Hr':  
'0.2307190105896851', 'explorer': 'https://tronscan.org/#/'}, { 'id':  
'steth', 'rank': '11', 'symbol': 'STETH', 'name': 'Lido Staked ETH',  
'supply': '9331071.7969305600000000', 'maxSupply': None,  
'marketCapUsd': '18816544744.0191734967205644', 'volumeUsd24Hr':  
'2204954.2502960607915306', 'priceUsd': '2016.5469898333483501',  
'changePercent24Hr': '3.9695424484539156', 'vwap24Hr':  
'2027.8022289274514320', 'explorer':  
'https://etherscan.io/token/0xae7ab96520de3a18e5e11b5eaab095312d7fe84  
'}, { 'id': 'wrapped-bitcoin', 'rank': '12', 'symbol': 'WBTC', 'name':  
'Wrapped Bitcoin', 'supply': '129077.4055218900000000', 'maxSupply':  
None, 'marketCapUsd': '11065164202.1104609981296916', 'volumeUsd24Hr':  
'212084414.1795635130375063', 'priceUsd': '85725.0279967390585278',  
'changePercent24Hr': '3.0489780750750948', 'vwap24Hr':  
'84722.7711034484265154', 'explorer':  
'https://etherscan.io/token/0x2260fac5e5542a773aa44fbcfedf7c193bc2c599  
'}, { 'id': 'chainlink', 'rank': '13', 'symbol': 'LINK', 'name':  
'Chainlink', 'supply': '657099970.4527867000000000', 'maxSupply':  
None, 'marketCapUsd': '9643678020.0482443789000441', 'volumeUsd24Hr':  
'232439811.0682066712021019', 'priceUsd': '14.6761200025668734',  
'changePercent24Hr': '4.6284599707340173', 'vwap24Hr':  
'14.5681670352369304', 'explorer':  
'https://etherscan.io/token/0x514910771af9ca656af840dff83e8264ecf986ca  
'}, { 'id': 'unus-sed-leo', 'rank': '14', 'symbol': 'LEO', 'name':  
'UNUS SED LEO', 'supply': '923901567.9000000000000000', 'maxSupply':  
None, 'marketCapUsd': '9028016619.5109541253489688', 'volumeUsd24Hr':  
'427253.4145999075607350', 'priceUsd': '9.7716217107752720',  
'changePercent24Hr': '-0.0023907719676769', 'vwap24Hr':  
'9.8285057068678064', 'explorer':  
'https://eospark.com/account/bitfinexleo1'}, { 'id': 'tontoken',  
'rank': '15', 'symbol': 'TON', 'name': 'Toncoin', 'supply':  
'2476378413.2700000000000000', 'maxSupply':  
'5047558527.7000000000000000', 'marketCapUsd':  
'9027026722.3695138026187715', 'volumeUsd24Hr':  
'78114367.3585684657368776', 'priceUsd': '3.6452533562709971',
```

```
'changePercent24Hr': '1.7623609798008813', 'vwap24Hr':  
'3.6549872216970479', 'explorer': 'https://tonscan.org/', {'id':  
'stellar', 'rank': '16', 'symbol': 'XLM', 'name': 'Stellar', 'supply':  
'30754554989.808120000000000000', 'maxSupply':  
'50001806812.000000000000000000', 'marketCapUsd':  
'8864595841.7856093845584380', 'volumeUsd24Hr':  
'167449106.9629961784368721', 'priceUsd': '0.2882368431187928',  
'changePercent24Hr': '3.8884144049379486', 'vwap24Hr':  
'0.2883590850471504', 'explorer': 'https://dashboard.stellar.org/',  
{'id': 'hedera-hashgraph', 'rank': '17', 'symbol': 'HBAR', 'name':  
'Hedera', 'supply': '41903956526.000000000000000000', 'maxSupply':  
'50000000000.000000000000000000', 'marketCapUsd':  
'8162254888.9991124525337502', 'volumeUsd24Hr':  
'109486867.8449403723567573', 'priceUsd': '0.1947848261997577',  
'changePercent24Hr': '3.0635554336799237', 'vwap24Hr':  
'0.1939893448973065', 'explorer':  
'https://app.dragonglass.me/hedera/home'}, {'id': 'avalanche', 'rank':  
'18', 'symbol': 'AVAX', 'name': 'Avalanche', 'supply':  
'414456548.043303000000000000', 'maxSupply':  
'715748719.000000000000000000', 'marketCapUsd':  
'7924077455.6624429749927125', 'volumeUsd24Hr':  
'140016222.0665972770276010', 'priceUsd': '19.1191995712769491',  
'changePercent24Hr': '0.1494136747800305', 'vwap24Hr':  
'19.5214952584704998', 'explorer': 'https://avascan.info/', {'id':  
'sui', 'rank': '19', 'symbol': 'SUI', 'name': 'Sui', 'supply':  
'3169845047.483887700000000000', 'maxSupply':  
'10000000000.000000000000000000', 'marketCapUsd':  
'7861315885.0737413856090811', 'volumeUsd24Hr':  
'499711926.2287968818481644', 'priceUsd': '2.4800316000663122',  
'changePercent24Hr': '7.1098196663617039', 'vwap24Hr':  
'2.4096721497272037', 'explorer': 'https://suiexplorer.com/', {'id':  
'shiba-inu', 'rank': '20', 'symbol': 'SHIB', 'name': 'Shiba Inu',  
'supply': '589252943069085.000000000000000000', 'maxSupply':  
'589552695333683.000000000000000000', 'marketCapUsd':  
'7623548462.0516126516887650', 'volumeUsd24Hr':  
'60075219.3803284534929450', 'priceUsd': '0.0000129376502090',  
'changePercent24Hr': '2.7926503343588598', 'vwap24Hr':  
'0.0000128033871841', 'explorer':  
'https://etherscan.io/token/0x95ad61b0a150d79219dcf64ele6cc01f0b64c4ce  
'}, {'id': 'litecoin', 'rank': '21', 'symbol': 'LTC', 'name':  
'Litecoin', 'supply': '75558468.304089200000000000', 'maxSupply':  
'84000000.000000000000000000', 'marketCapUsd':  
'6997568987.8739259176620783', 'volumeUsd24Hr':  
'218570973.4035027848225876', 'priceUsd': '92.6113133965583542',  
'changePercent24Hr': '2.5489567710785060', 'vwap24Hr':  
'92.3511014296305310', 'explorer':  
'http://explorer.litecoin.net/chain/Litecoin'}, {'id': 'bitcoin-cash',  
'rank': '22', 'symbol': 'BCH', 'name': 'Bitcoin Cash', 'supply':  
'19844628.125000000000000000', 'maxSupply': '21000000.000000000000000000',
```

```
'marketCapUsd': '6882730989.2891889129111628', 'volumeUsd24Hr':  
'81483919.8428995439105788', 'priceUsd': '346.8309381226658241',  
'changePercent24Hr': '3.7359186794239138', 'vwap24Hr':  
'342.0240846321819085', 'explorer': 'https://blockchair.com/bitcoin-  
cash/blocks'}, {'id': 'polkadot', 'rank': '23', 'symbol': 'DOT',  
'name': 'Polkadot', 'supply': '1522267060.0000000000000000',  
'maxSupply': None, 'marketCapUsd': '6795078764.9864225816836440',  
'volumeUsd24Hr': '97754603.9571205589844152', 'priceUsd':  
'4.4637888735412974', 'changePercent24Hr': '-0.9879458157572124',  
'vwap24Hr': '4.5182142085488888', 'explorer':  
'https://polkascan.io/polkadot'}, {'id': 'weth', 'rank': '24',  
'symbol': 'WETH', 'name': 'Wrapped ETH', 'supply':  
'3375317.5900000000000000', 'maxSupply': None, 'marketCapUsd':  
'6784207944.2171450688014559', 'volumeUsd24Hr':  
'831389553.9247925744476420', 'priceUsd': '2009.9465497162727934',  
'changePercent24Hr': '3.6109059366546630', 'vwap24Hr': None,  
'explorer':  
'https://etherscan.io/token/0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2  
'}, {'id': 'mantra-dao', 'rank': '25', 'symbol': 'OM', 'name':  
'Mantra', 'supply': '974778351.8199997000000000', 'maxSupply':  
'888888888.0000000000000000', 'marketCapUsd':  
'6684274885.1765053153405088', 'volumeUsd24Hr':  
'86783548.5519048677276736', 'priceUsd': '6.8572254120091579',  
'changePercent24Hr': '0.1041670035121405', 'vwap24Hr':  
'6.7212529141118881', 'explorer':  
'https://etherscan.io/token/0x3593d125a4f7849a1b059e64f4517a86dd60c95d  
'}, {'id': 'ethena-usde', 'rank': '26', 'symbol': 'USDE', 'name':  
'Ethena USDe', 'supply': '5413397661.6940170000000000', 'maxSupply':  
None, 'marketCapUsd': '5413902909.2117136321153252', 'volumeUsd24Hr':  
'17563515.7558190994963361', 'priceUsd': '1.0000933327919491',  
'changePercent24Hr': '0.0447543630562142', 'vwap24Hr': None,  
'explorer': 'etherscan.io'}, {'id': 'multi-collateral-dai', 'rank':  
'27', 'symbol': 'DAI', 'name': 'Dai', 'supply':  
'5365382702.6648720000000000', 'maxSupply': None, 'marketCapUsd':  
'5364130592.1937611352956491', 'volumeUsd24Hr':  
'136949776.0822187238848437', 'priceUsd': '0.9997666316569573',  
'changePercent24Hr': '0.0010931898896998', 'vwap24Hr':  
'1.0002753860778906', 'explorer':  
'https://etherscan.io/token/0x89d24a6b4ccb1b6faa2625fe562bdd9a23260359  
'}, {'id': 'hyperliquid', 'rank': '28', 'symbol': 'HYPE', 'name':  
'Hyperliquid', 'supply': '333928180.0000000000000000', 'maxSupply':  
'1000000000.0000000000000000', 'marketCapUsd':  
'4998067226.6480915738973660', 'volumeUsd24Hr':  
'30945625.1915155297155361', 'priceUsd': '14.9674915924977987',  
'changePercent24Hr': '3.8770387685431154', 'vwap24Hr':  
'15.0286301395665930', 'explorer':  
'https://app.hyperliquid.xyz/explorer/token/0x0d01dc56dcaaca66ad901c95  
9b4011ec'}, {'id': 'uniswap', 'rank': '29', 'symbol': 'UNI', 'name':  
'Uniswap', 'supply': '600585117.7100000000000000', 'maxSupply': None,
```

```
'marketCapUsd': '4128079594.4001939232233303', 'volumeUsd24Hr':  
'170616613.7584929171198931', 'priceUsd': '6.8734297149092671',  
'changePercent24Hr': '8.3887026812961290', 'vwap24Hr':  
'6.8417261722158541', 'explorer':  
'https://etherscan.io/token/0x1f9840a85d5af5bf1d1762f925bdaddc4201f984  
'}, {'id': 'monero', 'rank': '30', 'symbol': 'XMR', 'name': 'Monero',  
'supply': '18446744.073709550000000000', 'maxSupply': None,  
'marketCapUsd': '3873153188.3913869539582580', 'volumeUsd24Hr':  
'41174123.7214044294519681', 'priceUsd': '209.9640550611550168',  
'changePercent24Hr': '0.7454638281970170', 'vwap24Hr':  
'207.3982853017553622', 'explorer': 'http://moneroblocks.info/'},  
{ 'id': 'aptos', 'rank': '31', 'symbol': 'APT', 'name': 'Aptos',  
'supply': '602946070.680732800000000000', 'maxSupply': None,  
'marketCapUsd': '3317120869.3813564579852385', 'volumeUsd24Hr':  
'42709975.7619731504152229', 'priceUsd': '5.5015216628516879',  
'changePercent24Hr': '0.3491894193996553', 'vwap24Hr':  
'5.5548363509543856', 'explorer': 'https://explorer.aptoslabs.com/'},  
{ 'id': 'near-protocol', 'rank': '32', 'symbol': 'NEAR', 'name': 'Near  
Protocol', 'supply': '1196157059.000000000000000000', 'maxSupply': None,  
'marketCapUsd': '3282853528.7581569127073295', 'volumeUsd24Hr':  
'105714928.5119109566906780', 'priceUsd': '2.7445004015632005',  
'changePercent24Hr': '5.2718210726360486', 'vwap24Hr':  
'2.7223992223459794', 'explorer':  
'https://explorer.nearprotocol.com/'}, { 'id': 'pepe', 'rank': '33',  
'symbol': 'PEPE', 'name': 'Pepe', 'supply':  
'420689899653543.560000000000000000', 'maxSupply':  
'4206900000000000.000000000000000000', 'marketCapUsd':  
'3198516655.9752456503592638', 'volumeUsd24Hr':  
'462742591.1031352941107529', 'priceUsd': '0.0000076030269769',  
'changePercent24Hr': '4.3934363749198149', 'vwap24Hr':  
'0.0000074014846356', 'explorer':  
'https://etherscan.io/token/0x6982508145454ce325ddbe47a25d4ec3d2311933  
'}, { 'id': 'okb', 'rank': '34', 'symbol': 'OKB', 'name': 'OKB',  
'supply': '60000000.000000000000000000', 'maxSupply': None,  
'marketCapUsd': '3104758086.294049650000000000', 'volumeUsd24Hr':  
'298551.8620104711580681', 'priceUsd': '51.7459681049008275',  
'changePercent24Hr': '-1.5550483154129854', 'vwap24Hr':  
'52.5864780814697129', 'explorer':  
'https://etherscan.io/token/0x75231f58b43240c9718dd58b4967c5114342a86c  
'}, { 'id': 'internet-computer', 'rank': '35', 'symbol': 'ICP', 'name':  
'Internet Computer', 'supply': '481769392.761312500000000000',  
'maxSupply': None, 'marketCapUsd': '2847088529.0406380310121216',  
'volumeUsd24Hr': '26825103.0123486966871168', 'priceUsd':  
'5.9096500770259551', 'changePercent24Hr': '1.3958806575977589',  
'vwap24Hr': '5.9138777234348518', 'explorer':  
'https://www.dfinityexplorer.org/#/'}, { 'id': 'ondo-finance', 'rank':  
'36', 'symbol': 'ONDO', 'name': 'Ondo', 'supply':  
'3159107529.000000000000000000', 'maxSupply': None, 'marketCapUsd':  
'2769032524.2617000114135739', 'volumeUsd24Hr':
```



```
'111830948.6863860083577292', 'priceUsd': '0.8765236696891491',  
'changePercent24Hr': '4.5963802352292691', 'vwap24Hr':  
'0.8643848634615368', 'explorer':  
'https://etherscan.io/token/0xfAbA6f8e4a5E8Ab82F62fe7C39859FA577269BE3  
'}, {'id': 'ethereum-classic', 'rank': '37', 'symbol': 'ETC', 'name':  
'Ethereum Classic', 'supply': '151188491.16049764000000000',  
'maxSupply': '210700000.000000000000000000', 'marketCapUsd':  
'2740529443.9914296600130463', 'volumeUsd24Hr':  
'57161523.9720437062176803', 'priceUsd': '18.1265744697601171',  
'changePercent24Hr': '1.3278520517235091', 'vwap24Hr':  
'18.3079990677692440', 'explorer': 'http://gastracker.io/'}, {'id':  
'aave', 'rank': '38', 'symbol': 'AAVE', 'name': 'Aave', 'supply':  
'15090153.79246027000000000', 'maxSupply': None, 'marketCapUsd':  
'2681512681.6757197002225849', 'volumeUsd24Hr':  
'147499127.5441656297276730', 'priceUsd': '177.6994932295206892',  
'changePercent24Hr': '3.4836609564915727', 'vwap24Hr':  
'179.6052046170109527', 'explorer':  
'https://etherscan.io/token/0x80fB784B7eD66730e8b1DBd9820aFD29931aab03  
'}, {'id': 'official-trump', 'rank': '39', 'symbol': 'TRUMP', 'name':  
'Trump Official', 'supply': '199999458.426989000000000000', 'maxSupply':  
'999999993.450000000000000000', 'marketCapUsd':  
'2285142362.0437916139494460', 'volumeUsd24Hr':  
'59564173.8744364086787697', 'priceUsd': '11.4257427495884771',  
'changePercent24Hr': '4.0682590428909682', 'vwap24Hr':  
'11.3213389444469846', 'explorer':  
'https://solscan.io/token/6p6xgHyF7AeE6TZkSmFsko444wqoP15icUSqi2jfGiPN  
'}, {'id': 'vechain', 'rank': '40', 'symbol': 'VET', 'name':  
'VeChain', 'supply': '85985041177.000000000000000000', 'maxSupply':  
'86712634466.000000000000000000', 'marketCapUsd':  
'2270345702.7167856783232067', 'volumeUsd24Hr':  
'40367246.8587993706783272', 'priceUsd': '0.0264039613360571',  
'changePercent24Hr': '3.3531122232812679', 'vwap24Hr':  
'0.0264357546995426', 'explorer': 'https://explore.veforge.com/'},  
{ 'id': 'bittensor', 'rank': '41', 'symbol': 'TAO', 'name':  
'Bittensor', 'supply': '8477596.000000000000000000', 'maxSupply':  
'21000000.000000000000000000', 'marketCapUsd':  
'2218448588.7945520947761036', 'volumeUsd24Hr':  
'65776811.9253721877939783', 'priceUsd': '261.6836882524895141',  
'changePercent24Hr': '5.3477054446409497', 'vwap24Hr':  
'256.8523691309973469', 'explorer': 'https://bittensor.com/scan'},  
{ 'id': 'first-digital-usd', 'rank': '42', 'symbol': 'FDUSD', 'name':  
'First Digital USD', 'supply': '2173290084.127888000000000000',  
'maxSupply': None, 'marketCapUsd': '2171750788.8348185450468660',  
'volumeUsd24Hr': '896525945.6424661362505431', 'priceUsd':  
'0.9992917211998935', 'changePercent24Hr': '0.0420058008613858',  
'vwap24Hr': '0.9990561152018730', 'explorer': None}, { 'id': 'kasper',  
'rank': '43', 'symbol': 'KAS', 'name': 'Kasper', 'supply':  
'25887404929.015034000000000000', 'maxSupply':  
'28704026601.000000000000000000', 'marketCapUsd':
```

```
'2087251449.8031232736845865', 'volumeUsd24Hr':  
'26002557.2920860670262084', 'priceUsd': '0.0806280681870780',  
'changePercent24Hr': '2.9015445860042638', 'vwap24Hr':  
'0.0809263590980521', 'explorer': 'https://explorer.kaspa.org/'}},  
{'id': 'crypto-com-coin', 'rank': '44', 'symbol': 'CRO', 'name':  
'Cronos', 'supply': '25263013692.0000000000000000', 'maxSupply':  
'30263013692.0000000000000000', 'marketCapUsd':  
'2053975335.0996256818548352', 'volumeUsd24Hr':  
'11787922.4935240287893167', 'priceUsd': '0.0813036544309856',  
'changePercent24Hr': '3.3988772225295113', 'vwap24Hr':  
'0.0804642757530825', 'explorer':  
'https://etherscan.io/token/0xa0b73e1ff0b80914ab6fe0444e65848c4c34450b  
'}, {'id': 'filecoin', 'rank': '45', 'symbol': 'FIL', 'name':  
'Filecoin', 'supply': '644776568.0000000000000000', 'maxSupply': None,  
'marketCapUsd': '1969259463.9431362586652064', 'volumeUsd24Hr':  
'65621443.9053460115846535', 'priceUsd': '3.0541734325915148',  
'changePercent24Hr': '4.1399059567887528', 'vwap24Hr':  
'3.0136524542886570', 'explorer': 'https://protocol.ai'}, {'id':  
'gatetoken', 'rank': '46', 'symbol': 'GT', 'name': 'GateToken',  
'supply': '85845248.0951314900000000', 'maxSupply': None,  
'marketCapUsd': '1951824477.2824410569351809', 'volumeUsd24Hr':  
'43831355.9929824541344909', 'priceUsd': '22.7365465252017154',  
'changePercent24Hr': '2.2624235208204103', 'vwap24Hr':  
'22.6993930083077854', 'explorer': None}, {'id': 'polygon-ecosystem-  
token', 'rank': '47', 'symbol': 'POL', 'name': 'POL (prev. MATIC)',  
'supply': '8625402457.7241610000000000', 'maxSupply': None,  
'marketCapUsd': '1880441889.1411082504178725', 'volumeUsd24Hr':  
'33483611.2985873804798100', 'priceUsd': '0.2180120751881146',  
'changePercent24Hr': '2.6577980600138772', 'vwap24Hr':  
'0.2166153131126612', 'explorer':  
'https://etherscan.io/token/0x455e53CBB86018Ac2B8092FdCd39d8444aFFC3F6  
'}, {'id': 'celestia', 'rank': '48', 'symbol': 'TIA', 'name':  
'Celestia', 'supply': '567415978.4891890000000000', 'maxSupply': None,  
'marketCapUsd': '1875166432.9425570866530941', 'volumeUsd24Hr':  
'46445348.3472042338241319', 'priceUsd': '3.3047473177181328',  
'changePercent24Hr': '1.2282585237187359', 'vwap24Hr':  
'3.3329707402787502', 'explorer': 'https://www.mintscan.io/celestia'},  
{'id': 'cosmos', 'rank': '49', 'symbol': 'ATOM', 'name': 'Cosmos',  
'supply': '390934204.0000000000000000', 'maxSupply': None,  
'marketCapUsd': '1852212369.8385763263138460', 'volumeUsd24Hr':  
'50361937.9152741468951196', 'priceUsd': '4.7379133135113865',  
'changePercent24Hr': '2.7467357194878910', 'vwap24Hr':  
'4.6823031293846678', 'explorer': 'https://www.mintscan.io/'}, {'id':  
'arbitrum', 'rank': '50', 'symbol': 'ARB', 'name': 'Arbitrum',  
'supply': '4617913336.0000000000000000', 'maxSupply': None,  
'marketCapUsd': '1732586485.4006391887556160', 'volumeUsd24Hr':  
'78567865.7212712628117629', 'priceUsd': '0.3751881768533560',  
'changePercent24Hr': '1.7528672139878852', 'vwap24Hr':  
'0.3787607656604535', 'explorer':
```

```
'https://arbiscan.io/token/0x912CE59144191C1204E64559FE8253a0e49E6548'
}, {'id': 'render', 'rank': '51', 'symbol': 'RENDER', 'name':
'Render', 'supply': '517716590.0562826400000000', 'maxSupply':
'644168762.0000000000000000', 'marketCapUsd':
'1729214717.9696483804780411', 'volumeUsd24Hr':
'48472135.2188249498655654', 'priceUsd': '3.3400797872474202',
'changePercent24Hr': '2.9309636201058107', 'vwap24Hr':
'3.3464869863620858', 'explorer': None}, {'id': 'algorand', 'rank':
'52', 'symbol': 'ALGO', 'name': 'Algorand', 'supply':
'8514766904.2469440000000000', 'maxSupply':
'10000000000.0000000000000000', 'marketCapUsd':
'1688478928.4399618042037819', 'volumeUsd24Hr':
'56809893.9023666752577710', 'priceUsd': '0.1983000764939076',
'changePercent24Hr': '5.3649610450755149', 'vwap24Hr':
'0.1968365006792353', 'explorer': 'https://algoexplorer.io/'}, {'id':
'dexe', 'rank': '53', 'symbol': 'DEXE', 'name': 'DeXe', 'supply':
'83733347.4979964300000000', 'maxSupply': None, 'marketCapUsd':
'1611957448.3634738041346726', 'volumeUsd24Hr':
'7654990.5304960087281999', 'priceUsd': '19.2510809197260947',
'changePercent24Hr': '2.0915899808297526', 'vwap24Hr':
'18.9217257420279363', 'explorer':
'https://etherscan.io/token/0xde4EE8057785A7e8e800Db58F9784845A5C2Cbd6
'}, {'id': 'fantom', 'rank': '54', 'symbol': 'S', 'name': 'Sonic
(prev. FTM)', 'supply': '2803634835.5265927000000000', 'maxSupply':
'3175000000.0000000000000000', 'marketCapUsd':
'1504686121.7529527706766045', 'volumeUsd24Hr':
'121822085.5182136884603499', 'priceUsd': '0.5366911919791206',
'changePercent24Hr': '6.5648781853781651', 'vwap24Hr':
'0.5290256986360328', 'explorer': 'sonicscan.org'}, {'id': 'jupiter',
'rank': '55', 'symbol': 'JUP', 'name': 'Jupiter', 'supply':
'2690911111.1000000000000000', 'maxSupply':
'3000000000.0000000000000000', 'marketCapUsd':
'1443424589.5969690988003498', 'volumeUsd24Hr':
'29117241.0371164937913286', 'priceUsd': '0.5364073839685180',
'changePercent24Hr': '3.9961984441138086', 'vwap24Hr':
'0.5342652620521797', 'explorer':
'https://solscan.io/token/JUPyiwrYJFskUPiHa7hkeR8VUtAeFoSYbKedZNSdvCN'
}, {'id': 'story-protocol', 'rank': '56', 'symbol': 'IP', 'name':
'Story', 'supply': '250000000.0000000000000000', 'maxSupply': None,
'marketCapUsd': '1388229379.8072644250000000', 'volumeUsd24Hr':
'22414976.6665670781247266', 'priceUsd': '5.5529175192290577',
'changePercent24Hr': '4.106769678222495', 'vwap24Hr':
'5.4620682324085321', 'explorer': 'www.storyscan.xyz'}, {'id':
'kucoin-token', 'rank': '57', 'symbol': 'KCS', 'name': 'KuCoin Token',
'supply': '122561753.8513356400000000', 'maxSupply':
'200000000.0000000000000000', 'marketCapUsd':
'1376917699.7623840257281490', 'volumeUsd24Hr':
'884439.8671507707507234', 'priceUsd': '11.2344810391058124',
'changePercent24Hr': '0.5886693914322810', 'vwap24Hr':
```

```
'11.2703452427436996', 'explorer':  
'https://etherscan.io/token/0xf34960d9d60be18ccd5afcla6f012a723a28811  
'}, {'id': 'fetch', 'rank': '58', 'symbol': 'FET', 'name': 'Artificial  
Superintelligence Alliance', 'supply': '2520000000.0000000000000000',  
'maxSupply': '2630547141.0000000000000000', 'marketCapUsd':  
'1348332198.2251821000000000', 'volumeUsd24Hr':  
'50540791.5161389794608593', 'priceUsd': '0.5350524596131675',  
'changePercent24Hr': '3.5944339922811070', 'vwap24Hr':  
'0.5397344751212573', 'explorer':  
'https://etherscan.io/token/0x1d287cc25dad7ccaf76a26bc660c5f7c8e2a05bd  
'}, {'id': 'ethena', 'rank': '59', 'symbol': 'ENA', 'name': 'Ethena',  
'supply': '3223437500.0000000000000000', 'maxSupply': None,  
'marketCapUsd': '1265057305.3821180259375000', 'volumeUsd24Hr':  
'101032099.5246573590715086', 'priceUsd': '0.3924559745247482',  
'changePercent24Hr': '6.5592585684914017', 'vwap24Hr':  
'0.3880053450366989', 'explorer': None}, {'id': 'xinfm-network',  
'rank': '60', 'symbol': 'XDC', 'name': 'XDC Network', 'supply':  
'15692654414.5500000000000000', 'maxSupply': None, 'marketCapUsd':  
'1111765260.0996330485596352', 'volumeUsd24Hr':  
'26065269.1744677359158841', 'priceUsd': '0.0708462208323928',  
'changePercent24Hr': '5.9601580643237771', 'vwap24Hr':  
'0.0697622865521819', 'explorer':  
'https://etherscan.io/token/0x41ab1b6fcb2fa9dced81acbddec13ea6315f2bf2  
'}, {'id': 'movement', 'rank': '61', 'symbol': 'MOVE', 'name':  
'Movement', 'supply': '2450000000.0000000000000000', 'maxSupply':  
'10000000000.0000000000000000', 'marketCapUsd':  
'1107319155.3302146100000000', 'volumeUsd24Hr':  
'38887463.8121646240561211', 'priceUsd': '0.4519670021755978',  
'changePercent24Hr': '1.0649379472170825', 'vwap24Hr':  
'0.4508013243380355', 'explorer': None}, {'id': 'maker', 'rank': '62',  
'symbol': 'MKR', 'name': 'Maker', 'supply': '848074.4183746700000000',  
'maxSupply': '1000000.0000000000000000', 'marketCapUsd':  
'1087577397.1537396083405253', 'volumeUsd24Hr':  
'34474567.2424786158162605', 'priceUsd': '1282.4079745714718782',  
'changePercent24Hr': '0.9272859706943402', 'vwap24Hr':  
'1295.5692564164783203', 'explorer':  
'https://etherscan.io/token/Maker'}, {'id': 'worldcoin-org', 'rank':  
'63', 'symbol': 'WLD', 'name': 'Worldcoin', 'supply':  
'1175687654.7976828000000000', 'maxSupply': None, 'marketCapUsd':  
'1060137777.5797253800624243', 'volumeUsd24Hr':  
'60800252.7616793134509030', 'priceUsd': '0.9017171978063836',  
'changePercent24Hr': '6.2065435895437548', 'vwap24Hr':  
'0.8851209613046663', 'explorer': None}, {'id': 'immutable-x', 'rank':  
'64', 'symbol': 'IMX', 'name': 'Immutable X', 'supply':  
'1768317543.3900000000000000', 'maxSupply':  
'2000000000.0000000000000000', 'marketCapUsd':  
'1025114659.9497134354017757', 'volumeUsd24Hr':  
'11558747.3005429268925647', 'priceUsd': '0.5797118644112359',  
'changePercent24Hr': '1.3120421591111616', 'vwap24Hr':
```

```
'0.5837641041851222', 'explorer': None}, {'id': 'stacks', 'rank':  
'65', 'symbol': 'STX', 'name': 'Stacks', 'supply':  
'1517731218.552280000000000000', 'maxSupply':  
'1818000000.000000000000000000', 'marketCapUsd':  
'985602201.7562491807070895', 'volumeUsd24Hr':  
'16076928.0588839192463905', 'priceUsd': '0.6493917959310257',  
'changePercent24Hr': '4.5677801001476667', 'vwap24Hr':  
'0.6484722704257539', 'explorer': 'https://explorer.stacks.co/'},  
{ 'id': 'injective-protocol', 'rank': '66', 'symbol': 'INJ', 'name':  
'Injective', 'supply': '98970935.410000000000000000', 'maxSupply':  
'100000000.000000000000000000', 'marketCapUsd':  
'985337308.9802692718231843', 'volumeUsd24Hr':  
'70613919.5505868024519682', 'priceUsd': '9.9558249590991642',  
'changePercent24Hr': '3.8282797620750157', 'vwap24Hr':  
'10.0460811742416822', 'explorer':  
'https://etherscan.io/token/0xe28b3b32b6c345a34ff64674606124dd5aceca30  
'}, {'id': 'sei', 'rank': '67', 'symbol': 'SEI', 'name': 'Sei',  
'supply': '4882361111.000000000000000000', 'maxSupply': None,  
'marketCapUsd': '975828036.0983543693206533', 'volumeUsd24Hr':  
'47441103.5467950651064971', 'priceUsd': '0.1998680584891203',  
'changePercent24Hr': '0.5982109221288272', 'vwap24Hr':  
'0.2015826037181863', 'explorer': None}, {'id': 'quant', 'rank': '68',  
'symbol': 'QNT', 'name': 'Quant', 'supply':  
'12072738.000000000000000000', 'maxSupply': '14881364.000000000000000000',  
'marketCapUsd': '946800253.2517076999534748', 'volumeUsd24Hr':  
'9866772.5774860219935400', 'priceUsd': '78.4246500878017646',  
'changePercent24Hr': '0.9577276267386593', 'vwap24Hr':  
'79.1012781037340239', 'explorer':  
'https://etherscan.io/token/0x4a220e6096b25eadb88358cb44068a3248254675  
'}, {'id': 'theta', 'rank': '69', 'symbol': 'THETA', 'name': 'Theta  
Network', 'supply': '1000000000.000000000000000000', 'maxSupply':  
'1000000000.000000000000000000', 'marketCapUsd':  
'945922779.005395800000000000', 'volumeUsd24Hr':  
'23462600.6209728301248048', 'priceUsd': '0.9459227790053958',  
'changePercent24Hr': '4.2947741942889119', 'vwap24Hr':  
'0.9451528341345720', 'explorer': 'https://explorer.thetatoken.org/'},  
{ 'id': 'the-graph', 'rank': '70', 'symbol': 'GRT', 'name': 'The  
Graph', 'supply': '9548531509.165474000000000000', 'maxSupply': None,  
'marketCapUsd': '931943701.5480576540355293', 'volumeUsd24Hr':  
'16171697.7688363508844143', 'priceUsd': '0.0976007358465017',  
'changePercent24Hr': '3.2425524219152827', 'vwap24Hr':  
'0.0981456568564136', 'explorer':  
'https://etherscan.io/token/0xc944e90c64b2c07662a292be6244bdf05cda44a7  
'}, {'id': 'flare', 'rank': '71', 'symbol': 'FLR', 'name': 'Flare',  
'supply': '60983663777.010000000000000000', 'maxSupply': None,  
'marketCapUsd': '918115802.9033728116043972', 'volumeUsd24Hr':  
'3196997.2992517481453036', 'priceUsd': '0.0150551105991354',  
'changePercent24Hr': '1.9257003059198559', 'vwap24Hr':  
'0.0151726332909835', 'explorer': 'https://flare-  
explorer.flare.network/'}, {'id': 'eos', 'rank': '72', 'symbol':
```

```
'EOS', 'name': 'EOS', 'supply': '1553562807.8135000000000000',  
'maxSupply': '2100000000.0000000000000000', 'marketCapUsd':  
'909157577.4792544021449211', 'volumeUsd24Hr':  
'107832453.5870817754917398', 'priceUsd': '0.5852081247740553',  
'changePercent24Hr': '1.7602937837040756', 'vwap24Hr':  
'0.5763077926984943', 'explorer': 'https://bloks.io/'}, {'id':  
'bonk1', 'rank': '73', 'symbol': 'BONK', 'name': 'Bonk', 'supply':  
'77795920373892.7800000000000000', 'maxSupply': None, 'marketCapUsd':  
'907286798.1439068659875907', 'volumeUsd24Hr':  
'106400588.5591465050207551', 'priceUsd': '0.0000116623955830',  
'changePercent24Hr': '8.1035422655132696', 'vwap24Hr':  
'0.0000114376193198', 'explorer': None}, {'id': 'lido-dao', 'rank':  
'74', 'symbol': 'LDO', 'name': 'Lido DAO', 'supply':  
'897877243.8587132000000000', 'maxSupply': None, 'marketCapUsd':  
'907029120.1948740788262254', 'volumeUsd24Hr':  
'51871133.4238351619878944', 'priceUsd': '1.0101927923875538',  
'changePercent24Hr': '6.1349520808675861', 'vwap24Hr':  
'1.0256729944550184', 'explorer':  
'https://etherscan.io/token/0x5a98fcbea516cf06857215779fd812ca3bef1b32  
'}, {'id': 'paypal-usd', 'rank': '75', 'symbol': 'PYUSD', 'name':  
'PayPal USD', 'supply': '791273913.3705820000000000', 'maxSupply':  
None, 'marketCapUsd': '790817980.3121844379847064', 'volumeUsd24Hr':  
'12799426.5411810171112917', 'priceUsd': '0.9994237986989165',  
'changePercent24Hr': '0.0147973824423733', 'vwap24Hr':  
'0.9991248989710140', 'explorer':  
'https://etherscan.io/token/0x6c3ea9036406852006290770bedfcaba0e23a0e8  
'}, {'id': 'gala', 'rank': '76', 'symbol': 'GALA', 'name': 'Gala',  
'supply': '43599695711.0363100000000000', 'maxSupply':  
'50000000000.0000000000000000', 'marketCapUsd':  
'766458629.9645191892343183', 'volumeUsd24Hr':  
'34590719.8433445568491711', 'priceUsd': '0.0175794490641481',  
'changePercent24Hr': '2.7076235232196037', 'vwap24Hr':  
'0.0175032200324268', 'explorer':  
'https://ethplorer.io/es/address/0x15d4c048f83bd7e37d49ea4c83a07267ec4  
203da#chart=candlestick'}, {'id': 'tether-gold', 'rank': '77',  
'symbol': 'XAUT', 'name': 'Tether Gold', 'supply':  
'246524.0000000000000000', 'maxSupply': None, 'marketCapUsd':  
'751106269.9950499333104780', 'volumeUsd24Hr':  
'18269230.8275812825523892', 'priceUsd': '3046.7876149788658845',  
'changePercent24Hr': '0.2432125156123401', 'vwap24Hr':  
'3044.6598554165287247', 'explorer':  
'https://etherscan.io/token/0x4922a015c4407f87432b179bb209e125432e4a2a  
'}, {'id': 'tezos', 'rank': '78', 'symbol': 'XTZ', 'name': 'Tezos',  
'supply': '1035412052.9037840000000000', 'maxSupply': None,  
'marketCapUsd': '750191462.3901117102050233', 'volumeUsd24Hr':  
'6921611.0483918331429104', 'priceUsd': '0.7245342183203497',  
'changePercent24Hr': '1.8204654126891430', 'vwap24Hr':  
'0.7223231517552401', 'explorer': 'https://tzkt.io/'}, {'id':  
'pancakeswap', 'rank': '79', 'symbol': 'CAKE', 'name': 'PancakeSwap',
```

```
'supply': '292620651.0851407600000000', 'maxSupply':  
'450000000.0000000000000000', 'marketCapUsd':  
'736560462.2740713084944714', 'volumeUsd24Hr':  
'193813565.0762138765044813', 'priceUsd': '2.5171171601957855',  
'changePercent24Hr': '10.3787177280722490', 'vwap24Hr':  
'2.3965529641243874', 'explorer':  
'https://bscscan.com/token/0x0e09fabb73bd3ade0a17ecc321fd13a19e81ce82'  
'}, {'id': 'the-sandbox', 'rank': '80', 'symbol': 'SAND', 'name': 'The  
Sandbox', 'supply': '2469357126.2233224000000000', 'maxSupply': None,  
'marketCapUsd': '721144486.8966820129765440', 'volumeUsd24Hr':  
'26531385.5248311669169112', 'priceUsd': '0.2920373400989645',  
'changePercent24Hr': '2.0651665494863680', 'vwap24Hr':  
'0.2930100050059331', 'explorer':  
'https://etherscan.io/token/0x3845badAde8e6dFF049820680d1F14bD3903a5d0  
'}, {'id': 'nexo', 'rank': '81', 'symbol': 'NEX0', 'name': 'Nexo',  
'supply': '646145839.5746847000000000', 'maxSupply': None,  
'marketCapUsd': '720489355.4072048099886712', 'volumeUsd24Hr':  
'5662965.5286342828724758', 'priceUsd': '1.1150568668544791',  
'changePercent24Hr': '2.7246877063286371', 'vwap24Hr':  
'1.1132546690333903', 'explorer':  
'https://etherscan.io/token/0xb62132e35a6c13ee1ee0f84dc5d40bad8d815206  
'}, {'id': 'jasmy', 'rank': '82', 'symbol': 'JASMY', 'name':  
'JasmyCoin', 'supply': '49444999677.1695800000000000', 'maxSupply':  
'50000000000.0000000000000000', 'marketCapUsd':  
'706702058.0524561211991501', 'volumeUsd24Hr':  
'46065162.8648721526648105', 'priceUsd': '0.0142926901135923',  
'changePercent24Hr': '3.0229824617065496', 'vwap24Hr':  
'0.0142427937668406', 'explorer': None}, {'id': 'iota', 'rank': '83',  
'symbol': 'IOTA', 'name': 'IOTA', 'supply':  
'3688810566.0000000000000000', 'maxSupply': None, 'marketCapUsd':  
'691727598.7910975401153152', 'volumeUsd24Hr':  
'14122231.1605261777974735', 'priceUsd': '0.1875204992001472',  
'changePercent24Hr': '2.1656895918463256', 'vwap24Hr':  
'0.1890498645469617', 'explorer': 'https://thetangle.org/'}, {'id':  
'bittorrent', 'rank': '84', 'symbol': 'BTTOLD', 'name': 'BitTorrent  
[New]', 'supply': '986061142857000.0000000000000000', 'maxSupply':  
None, 'marketCapUsd': '690988490.5956605776812000', 'volumeUsd24Hr':  
'7495718.1408830278492330', 'priceUsd': '0.0000007007562316',  
'changePercent24Hr': '0.5228579828168408', 'vwap24Hr':  
'0.0000007076825912', 'explorer':  
'https://tronscan.org/#/token/1002000'}, {'id': 'bitcoin-sv', 'rank':  
'85', 'symbol': 'BSV', 'name': 'Bitcoin SV', 'supply':  
'19840081.2500000000000000', 'maxSupply': None, 'marketCapUsd':  
'690042996.6242791058463419', 'volumeUsd24Hr':  
'18827756.9516366620797957', 'priceUsd': '34.7802505407723119',  
'changePercent24Hr': '1.5299768774780825', 'vwap24Hr':  
'34.8986463249710794', 'explorer': 'https://bsvexplorer.io/'}, {'id':  
'flow', 'rank': '86', 'symbol': 'FLOW', 'name': 'Flow', 'supply':  
'1571065878.3134005000000000', 'maxSupply': None, 'marketCapUsd':
```

```
'676300754.9208170158368669', 'volumeUsd24Hr':  
'8334178.9302640978801900', 'priceUsd': '0.4304725627717482',  
'changePercent24Hr': '1.2380366344679625', 'vwap24Hr':  
'0.4342078496567588', 'explorer': 'https://flowscan.org/', {'id':  
'jito', 'rank': '87', 'symbol': 'JT0', 'name': 'Jito', 'supply':  
'306702602.6000000000000000', 'maxSupply': None, 'marketCapUsd':  
'667930065.4498092167002045', 'volumeUsd24Hr':  
'20410705.2502876328907361', 'priceUsd': '2.1777776249291248',  
'changePercent24Hr': '1.9812092739130241', 'vwap24Hr':  
'2.1754986237357206', 'explorer':  
'https://solscan.io/token/jtojtomepa8beP8AuQc6eXt5FriJwfFMwQx2v2f9mCL'  
}, {'id': 'berachain', 'rank': '88', 'symbol': 'BERA', 'name':  
'Berachain', 'supply': '107480000.0000000000000000', 'maxSupply':  
None, 'marketCapUsd': '663170487.4025146146280000', 'volumeUsd24Hr':  
'55938663.8902246084912087', 'priceUsd': '6.1701757294614311',  
'changePercent24Hr': '2.5765441940619795', 'vwap24Hr':  
'6.1090113147211582', 'explorer': None}, {'id': 'kaia', 'rank': '89',  
'symbol': 'KAIA', 'name': 'Kaia', 'supply':  
'5966455361.8200000000000000', 'maxSupply': None, 'marketCapUsd':  
'657198650.9572589376441706', 'volumeUsd24Hr':  
'8734100.8698857748412564', 'priceUsd': '0.1101489261384146',  
'changePercent24Hr': '1.8595597838021220', 'vwap24Hr':  
'0.1104405275318594', 'explorer': 'https://www.kaiascan.io/', {'id':  
'pax-gold', 'rank': '90', 'symbol': 'PAXG', 'name': 'PAX Gold',  
'supply': '210371.2200000000000000', 'maxSupply': None,  
'marketCapUsd': '643835982.9970122616645452', 'volumeUsd24Hr':  
'11583721.9050914016330076', 'priceUsd': '3060.4755869030576600',  
'changePercent24Hr': '0.0007013308271208', 'vwap24Hr':  
'3063.4579819837460825', 'explorer':  
'https://etherscan.io/token/0x45804880de22913dafa09f4980848ece6ecbaf78'  
}, {'id': 'ethereum-name-service', 'rank': '91', 'symbol': 'ENS',  
'name': 'Ethereum Name Service', 'supply':  
'35599404.0400000000000000', 'maxSupply':  
'100000000.0000000000000000', 'marketCapUsd':  
'626696454.3849927595937012', 'volumeUsd24Hr':  
'105011188.3587172823825101', 'priceUsd': '17.6041276893519805',  
'changePercent24Hr': '7.6317936560799154', 'vwap24Hr':  
'17.6504221507847722', 'explorer':  
'https://etherscan.io/token/0xC18360217D8F7Ab5e7c516566761Ea12Ce7F9D72'  
}, {'id': 'telcoin', 'rank': '92', 'symbol': 'TEL', 'name':  
'Telcoin', 'supply': '93880083810.9700000000000000', 'maxSupply':  
'100000000000.0000000000000000', 'marketCapUsd':  
'612305308.7658034478678540', 'volumeUsd24Hr':  
'3064003.2284923885714015', 'priceUsd': '0.0065222066695072',  
'changePercent24Hr': '22.3472046605626517', 'vwap24Hr':  
'0.0059476227665936', 'explorer':  
'https://etherscan.io/token/0x85e076361cc813a908ff672f9bad1541474402b2'  
}, {'id': 'floki-inu', 'rank': '93', 'symbol': 'FLOKI', 'name':  
'FLOKI', 'supply': '9626637864609.9200000000000000', 'maxSupply':
```



```
'0.000000000000000000', 'marketCapUsd': '611810874.3738258209434701',  
'volumeUsd24Hr': '55050770.4326623568930260', 'priceUsd':  
'0.0000635539513357', 'changePercent24Hr': '4.7121872246632973',  
'vwap24Hr': '0.0000625766773996', 'explorer':  
'https://bscscan.com/token/0xf5b5b838b6cfeedc2873ab27866079ac55363d37e'  
'}, {'id': 'neo', 'rank': '94', 'symbol': 'NEO', 'name': 'Neo',  
'supply': '70538831.000000000000000000', 'maxSupply': None,  
'marketCapUsd': '597754085.0000162034627849', 'volumeUsd24Hr':  
'15554027.7797066288894644', 'priceUsd': '8.4741138536874279',  
'changePercent24Hr': '1.2672389398472532', 'vwap24Hr':  
'8.4652939022869939', 'explorer': 'https://neotracker.io'}, {'id':  
'curve-dao-token', 'rank': '95', 'symbol': 'CRV', 'name': 'Curve DAO  
Token', 'supply': '1301119517.000000000000000000', 'maxSupply':  
'3030303030.299000000000000000', 'marketCapUsd':  
'585319204.8105805890099128', 'volumeUsd24Hr':  
'19944299.3322583583257752', 'priceUsd': '0.4498581392124184',  
'changePercent24Hr': '-2.8275296919863665', 'vwap24Hr':  
'0.4681024140371408', 'explorer':  
'https://etherscan.io/token/0xD533a949740bb3306d119CC777fa900bA034cd52  
'}, {'id': 'helium', 'rank': '96', 'symbol': 'HNT', 'name': 'Helium',  
'supply': '179761137.809390160000000000', 'maxSupply':  
'223000000.000000000000000000', 'marketCapUsd':  
'583346554.2511208252795998', 'volumeUsd24Hr':  
'717911.3406924365635393', 'priceUsd': '3.2451205046870182',  
'changePercent24Hr': '5.5623622858308889', 'vwap24Hr':  
'3.1703982466984713', 'explorer': 'https://explorer.helium.com/'},  
{ 'id': 'kava', 'rank': '97', 'symbol': 'KAVA', 'name': 'Kava',  
'supply': '1082853482.000000000000000000', 'maxSupply': None,  
'marketCapUsd': '560384147.3413358227401316', 'volumeUsd24Hr':  
'10457258.3071583505897254', 'priceUsd': '0.5175068988154538',  
'changePercent24Hr': '2.9667510181850595', 'vwap24Hr':  
'0.5071227043241836', 'explorer': 'https://www.mintscan.io/kava'},  
{ 'id': 'pyth-network', 'rank': '98', 'symbol': 'PYTH', 'name': 'Pyth  
Network', 'supply': '3624987919.850000000000000000', 'maxSupply': None,  
'marketCapUsd': '554496582.9423022903069231', 'volumeUsd24Hr':  
'14649620.6825308529990504', 'priceUsd': '0.1529650843540596',  
'changePercent24Hr': '1.9026764575850219', 'vwap24Hr':  
'0.1535576768069090', 'explorer':  
'https://solscan.io/token/HZ1JovNiVvGrGNiiYvEozEVgZ58xaU3RKwX8eACQBct3  
'}, {'id': 'raydium', 'rank': '99', 'symbol': 'RAY', 'name':  
'Raydium', 'supply': '290847970.959334000000000000', 'maxSupply':  
'555000000.000000000000000000', 'marketCapUsd':  
'554277843.3476025719497406', 'volumeUsd24Hr':  
'75183492.8992148338485362', 'priceUsd': '1.9057304801521239',  
'changePercent24Hr': '3.4581412597866685', 'vwap24Hr':  
'1.8745983524101705', 'explorer':  
'https://explorer.solana.com/address/4k3Dyjjvzvp8eMZWUXbBCjEvwSkkk59S5i  
CNLY3QrkX6R'}, {'id': 'axie-infinity', 'rank': '100', 'symbol': 'AXS',  
'name': 'Axie Infinity', 'supply': '159645321.135201070000000000',
```

```
'maxSupply': None, 'marketCapUsd': '549212099.5431111080215716',
'volumeUsd24Hr': '8435960.1485743196358075', 'priceUsd':
'3.4402016647765841', 'changePercent24Hr': '1.2535650827241893',
'vwap24Hr': '3.4549118489821158', 'explorer':
'https://etherscan.io/token/0xf5d669627376ebd411e34b98f19c868c8aba5ada
'}], 'timestamp': 1742464361064}
```

```
list=result['data']
```

```
d_df=pd.DataFrame(list)
```

```
d_df.head()
```

	id	rank	symbol	name	
supply \					
0	bitcoin	1	BTC	Bitcoin	19839365.000000000000000000
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	1706037786873.7106198404606770
1	None	242487511605.5840652354477185
2	100000000000.000000000000000000	145943038409.5955199789646773
3	None	143731287321.9458584928698058
4	144006830.000000000000000000	91553590449.2327638680128100

	volumeUsd24Hr	priceUsd
changePercent24Hr \		
0	10147436409.2559050493010130	85992.5600881737202698
3.0207804365478960		
1	6630547626.9428484305539245	2010.1892476968010920
3.5895602869021197		
2	3364865466.6031361177284420	2.5115427867048269
8.7077081319647885		
3	24679907696.7320083487682004	1.0005414297806127
0.1585142223874443		
4	549831147.4952279601138127	635.7586681772855070
3.4837381727311272		

	vwap24Hr	explorer
0	85201.0651284456121972	https://blockchain.info/
1	2023.0357853491439004	https://etherscan.io/

```

2      2.4898083714762087
https://xrpcharts.ripple.com/#/graph/
3      0.9999677996084417
https://www.omniexplorer.info/asset/31
4      617.6091689478402690
https://etherscan.io/token/0xB8c77482e45F1F44d...

```

d_df

	id	rank	symbol	name
supply \				
0	bitcoin	1	BTC	Bitcoin
19839365.000000000000000000				
1	ethereum	2	ETH	Ethereum
120629195.426956490000000000				
2	xrp	3	XRP	XRP
58108919817.0000000000000000				
3	tether	4	USDT	Tether
143653509034.065300000000000000				
4	binance-coin	5	BNB	BNB
144006830.000000000000000000				
..
...				
95	helium	96	HNT	Helium
179761137.809390160000000000				
96	kava	97	KAVA	Kava
1082853482.000000000000000000				
97	pyth-network	98	PYTH	Pyth Network
3624987919.850000000000000000				
98	raydium	99	RAY	Raydium
290847970.959334000000000000				
99	axie-infinity	100	AXS	Axie Infinity
159645321.135201070000000000				

	maxSupply	marketCapUsd \
0	21000000.000000000000000000	1706037786873.7106198404606770
1	None	242487511605.5840652354477185
2	100000000000.000000000000000000	145943038409.5955199789646773
3	None	143731287321.9458584928698058
4	144006830.000000000000000000	91553590449.2327638680128100
..
95	223000000.000000000000000000	583346554.2511208252795998
96	None	560384147.3413358227401316
97	None	554496582.9423022903069231
98	555000000.000000000000000000	554277843.3476025719497406
99	None	549212099.5431111080215716

	volumeUsd24Hr	priceUsd
changePercent24Hr \		
0	10147436409.2559050493010130	85992.5600881737202698

```

3.0207804365478960
1    6630547626.9428484305539245    2010.1892476968010920
3.5895602869021197
2    3364865466.6031361177284420    2.5115427867048269
8.7077081319647885
3    24679907696.7320083487682004    1.0005414297806127
0.1585142223874443
4    549831147.4952279601138127    635.7586681772855070
3.4837381727311272
..
...
95    717911.3406924365635393    3.2451205046870182
5.5623622858308889
96    10457258.3071583505897254    0.5175068988154538
2.9667510181850595
97    14649620.6825308529990504    0.1529650843540596
1.9026764575850219
98    75183492.8992148338485362    1.9057304801521239
3.4581412597866685
99    8435960.1485743196358075    3.4402016647765841
1.2535650827241893

```

vwap24Hr

```

explorer
0    85201.0651284456121972
https://blockchain.info/
1    2023.0357853491439004
https://etherscan.io/
2    2.4898083714762087
https://xrpcharts.ripple.com/#/graph/
3    0.9999677996084417
https://www.omniexplorer.info/asset/31
4    617.6091689478402690
https://etherscan.io/token/0xB8c77482e45F1F44d...
..
...
95    3.1703982466984713
https://explorer.helium.com/
96    0.5071227043241836
https://www.mintscan.io/kava
97    0.1535576768069090
https://solscan.io/token/HZ1JovNiVvGrGNiiYvEoz...
98    1.8745983524101705
https://explorer.solana.com/address/4k3Dyjjvzp...
99    3.4549118489821158
https://etherscan.io/token/0xf5d669627376ebd41...

```

[100 rows x 12 columns]

```
d_df.to_csv(r"C:\my pythonfiles\bitcoin.csv")
```

eda analysis

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

```
coin_df=pd.read_csv(r"C:\my pythonfiles\bitcoin.csv")
coin_df.head()*
```

	Unnamed: 0	id	rank	symbol	name	supply	\
0	0	bitcoin	1	BTC	Bitcoin	1.983936e+07	
1	1	ethereum	2	ETH	Ethereum	1.206292e+08	
2	2	xrp	3	XRP	XRP	5.810892e+10	
3	3	tether	4	USDT	Tether	1.436535e+11	
4	4	binance-coin	5	BNB	BNB	1.440068e+08	

	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd
changePercent24Hr	\			
0	2.100000e+07	1.706038e+12	1.014744e+10	85992.560088
3.020780				
1	NaN	2.424875e+11	6.630548e+09	2010.189248
3.589560				
2	1.000000e+11	1.459430e+11	3.364865e+09	2.511543
8.707708				
3	NaN	1.437313e+11	2.467991e+10	1.000541
0.158514				
4	1.440068e+08	9.155359e+10	5.498311e+08	635.758668
3.483738				

	vwap24Hr	explorer
0	85201.065128	https://blockchain.info/
1	2023.035785	https://etherscan.io/
2	2.489808	https://xrpcharts.ripple.com/#/graph/
3	0.999968	https://www.omniexplorer.info/asset/31
4	617.609169	https://etherscan.io/token/0xB8c77482e45F1F44d...

```
coin_df.info()
```

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

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

```
Data columns (total 13 columns):
```

#	Column	Non-Null Count	Dtype
0	Unnamed: 0	100 non-null	int64
1	id	100 non-null	object
2	rank	100 non-null	int64
3	symbol	100 non-null	object
4	name	100 non-null	object
5	supply	100 non-null	float64
6	maxSupply	44 non-null	float64

7	marketCapUsd	100	non-null	float64
8	volumeUsd24Hr	100	non-null	float64
9	priceUsd	100	non-null	float64
10	changePercent24Hr	100	non-null	float64
11	vwap24Hr	98	non-null	float64
12	explorer	89	non-null	object

dtypes: float64(7), int64(2), object(4)

memory usage: 10.3+ KB

coin_df.isnull().sum()

Unnamed: 0	0
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

coin_df.dropna(inplace=True)

coin_df.head()

	Unnamed: 0	id	rank	symbol	name	supply	\
0	0	bitcoin	1	BTC	Bitcoin	1.983936e+07	
2	2	xrp	3	XRP	XRP	5.810892e+10	
4	4	binance-coin	5	BNB	BNB	1.440068e+08	
8	8	cardano	9	ADA	Cardano	3.523480e+10	
14	14	tontoken	15	TON	Toncoin	2.476378e+09	

	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	\
0	2.100000e+07	1.706038e+12	1.014744e+10	85992.560088	
2	1.000000e+11	1.459430e+11	3.364865e+09	2.511543	
4	1.440068e+08	9.155359e+10	5.498311e+08	635.758668	
8	4.500000e+10	2.585056e+10	5.074758e+08	0.733666	
14	5.047559e+09	9.027027e+09	7.811437e+07	3.645253	

	changePercent24Hr	vwap24Hr	\
0	3.020780	85201.065128	
2	8.707708	2.489808	
4	3.483738	617.609169	
8	2.671917	0.732204	
14	1.762361	3.654987	

```

                                explorer
0                                https://blockchain.info/
2                                https://xrpcharts.ripple.com/#/graph/
4                                https://etherscan.io/token/0xB8c77482e45F1F44d...
8                                https://cardanoexplorer.com/
14                               https://tonscan.org/

```

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

	Unnamed: 0	id	rank	symbol	name	
supply count	40.000000	40	40.000000	40	40	4.000000e+01
unique	NaN	40	NaN	40	40	NaN
top	NaN	bitcoin	NaN	BTC	Bitcoin	NaN
freq	NaN	1	NaN	1	1	NaN
mean	46.375000	NaN	47.375000	NaN	NaN	2.550103e+13
std	29.211595	NaN	29.211595	NaN	NaN	1.130327e+14
min	0.000000	NaN	1.000000	NaN	NaN	8.480744e+05
25%	19.750000	NaN	20.750000	NaN	NaN	1.493931e+08
50%	42.500000	NaN	43.500000	NaN	NaN	1.409425e+09
75%	67.250000	NaN	68.250000	NaN	NaN	2.710419e+10
max	98.000000	NaN	99.000000	NaN	NaN	5.892529e+14

	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	\
count	4.000000e+01	4.000000e+01	4.000000e+01	40.000000	
unique	NaN	NaN	NaN	NaN	
top	NaN	NaN	NaN	NaN	
freq	NaN	NaN	NaN	NaN	
mean	2.527077e+13	5.198909e+10	4.443632e+08	2220.543471	
std	1.131153e+14	2.695408e+11	1.661502e+09	13587.080775	
min	0.000000e+00	5.542778e+08	7.179113e+05	0.000008	
25%	1.860017e+08	9.465809e+08	3.048853e+07	0.265753	
50%	1.409000e+09	2.070613e+09	6.292602e+07	2.192881	
75%	2.909377e+10	7.154064e+09	1.263706e+08	15.626651	
max	5.895527e+14	1.706038e+12	1.014744e+10	85992.560088	

	changePercent24Hr	vwap24Hr	explorer
count	40.000000	40.000000	40
unique	NaN	NaN	40
top	NaN	NaN	https://blockchain.info/

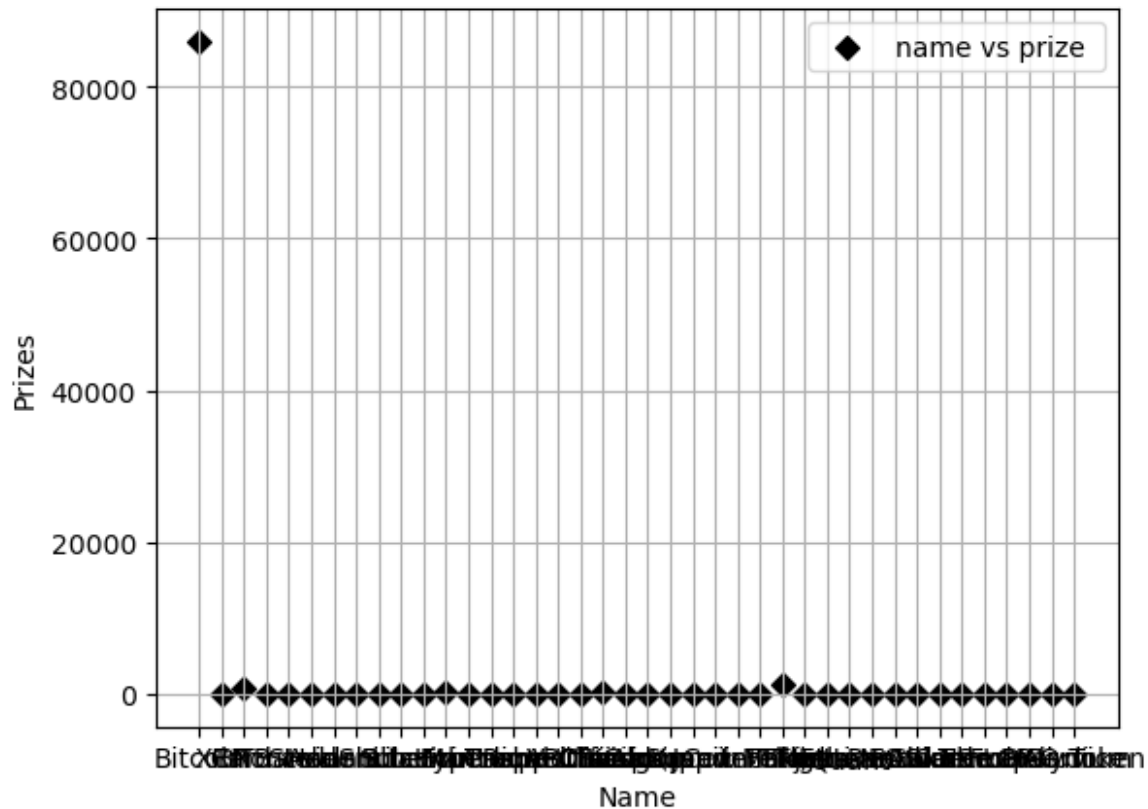
freq	NaN	NaN	1
mean	4.053075	2200.407494	NaN
std	3.828979	13462.016038	NaN
min	-2.827530	0.000007	NaN
25%	2.641177	0.265478	NaN
50%	3.539086	2.135576	NaN
75%	4.603882	15.684078	NaN
max	22.347205	85201.065128	NaN

1. The data consists of 40 unique records.
2. The cryptocurrency with the symbol "BTC" (Bitcoin) dataset.
3. There is high variability indicating that cryptocurrencies in the dataset have vastly different market caps.

create scatter plot between name and prize filter data if prize is <2usd

```
import matplotlib.pyplot as plt
Name=(coin_df['name'])
prize=(coin_df['priceUsd'])
plt.scatter(Name,prize,color='k',label="name vs prize ",marker='D')
plt.xlabel("Name")
plt.ylabel("Prizes")
plt.grid()
plt.legend()

<matplotlib.legend.Legend at 0x176201aca90>
```

```
filt=(coin_df[coin_df['priceUsd']<2])
filt.head()
```

	Unnamed: 0	id	rank	symbol	name	supply
8	8	cardano	9	ADA	Cardano	3.523480e+10
15	15	stellar	16	XLM	Stellar	3.075455e+10
16	16	hedera-hashgraph	17	HBAR	Hedera	4.190396e+10
19	19	shiba-inu	20	SHIB	Shiba Inu	5.892529e+14
32	32	pepe	33	PEPE	Pepe	4.206899e+14

	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd
changePercent24Hr \				
8	4.500000e+10	2.585056e+10	5.074758e+08	0.733666
2.671917				
15	5.000181e+10	8.864596e+09	1.674491e+08	0.288237
3.888414				
16	5.000000e+10	8.162255e+09	1.094869e+08	0.194785
3.063555				
19	5.895527e+14	7.623548e+09	6.007522e+07	0.000013

```
2.792650
32 4.206900e+14 3.198517e+09 4.627426e+08 0.000008
4.393436
```

```

vwap24Hr explorer
8 0.732204 https://cardanoexplorer.com/
15 0.288359 https://dashboard.stellar.org/
16 0.193989 https://app.dragonglass.me/hedera/home
19 0.000013 https://etherscan.io/token/0x95ad61b0a150d7921...
32 0.000007 https://etherscan.io/token/0x6982508145454ce32...
```

```
import matplotlib.pyplot as plt
Name=(filt['name'])
prize=(filt['priceUsd'])
plt.figure(figsize=(20,5))
plt.scatter(Name,prize,color='k',label="name vs prize ",marker='D')
plt.xlabel("Name")
plt.ylabel("Prizes")
plt.grid()
plt.legend()
```

```
<matplotlib.legend.Legend at 0x176202276d0>
```

