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Web Scraping Project

Website: https://coinmarketcap.com/

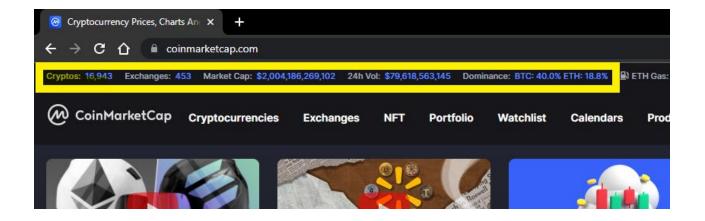
Tools:

- Python

- BeautifulSoup

Objective:

To scrap most important data of crypto market along with Name, Price, Market Capital of top 10 cryptocurrencies.





Output:

Cryptos: 16,943 Exchanges: 453 Market Cap: \$2,008,235,431,640 ******** 24h Vol: \$79,284,238,367 Dominance: BTC: 39.9% ETH: 18.9% NAME Price Market Cap Bitcoin \$42,429.87 \$803,340,563,953 Ethereum \$3,181.17 \$379,246,788,393 Tether \$1.00 \$78,367,701,085 BNB \$473.77 \$78,227,906,242 Cardano \$1.50 \$50,428,433,897 USD Coin \$1.00 \$45,761,070,806 Solana \$141.18 \$44,350,921,795 XRP \$0.7581 \$36,132,329,020 Terra \$80.96 \$28,981,899,872 Polkadot \$25.27 \$24,958,820,658

Code:

from bs4 import BeautifulSoup
import requests

def request(url):

```
def crypto_info_printer(top_information, coin_name, coin_price, market_cap):
   info = ""
   for i in range(5):
       x = top_information[i].text
       info = info + x + "\n****************\n"
   info = info + "NAME\t\tPrice\t\t\tMarket Cap\n"
   for i in range(9, 19):
       x = coin_name[i].text
       info = info + x + ""
       y = coin_price[i - 6].text
       info = info + y + "
       z = market_cap[i-9].text
       info = info + z + "
       info = info + "\n----\n"
   print(info)
def soup_lxml(text):
   return BeautifulSoup(text, 'lxml')
def crypto_info(url):
```

return requests.get(url)

```
response = request(url)
                             # request url, in this case
'https://coinmarketcap.com/'
   html_text = response.text  # html text of that request
    soup = soup_lxml(html_text) # convert html text to lxml format
   # Required Data from website
   top_information = soup.find_all('span', class_='sc-2bz68i-0 cVPJov')
   coin_name = soup.find_all(class_='sc-1eb5slv-0 iworPT')
    coin_price = soup.find_all(class_='sc-131di3y-0')
   market_cap = soup.find_all(class_='sc-low4cwt-1 ieFnWP')
    crypto_info_printer(top_information, coin_name, coin_price, market_cap)
if __name__ == '__main__':
   url = 'https://coinmarketcap.com/'
   crypto_info(url)
```