

Project: Cryptocurrency Scraper

This Python script scrapes cryptocurrency data from CoinMarketCap, including rank, name, symbol, and price, and displays it in a formatted table.

Libraries:

- requests
- BeautifulSoup (bs4)

My Code:

```
1. from bs4 import BeautifulSoup
2. import requests
3.
4. # Simple get request and get the page HTML
5. response = requests.get("https://coinmarketcap.com/")
6. soup = BeautifulSoup(response.text, 'html.parser')
7.
8. # Find all table rows
9. rows = soup.find_all('tr')
10.
11. cryptos = []
12.
13. # Extract crypto data from each row
14. for row in rows:
15.     rank_tag = row.find('p', class_='sc-71024e3e-0')
16.     name_tag = row.find('p', class_='sc-65e7f566-0')
17.     symbol_tag = row.find('p', class_='coin-item-symbol')
18.     price_tag = row.find('span', string=lambda text: text and '$' in text)
19.
20.     if name_tag or symbol_tag:
21.         rank = rank_tag.get_text(strip=True) if rank_tag else "NONE"
22.         name = name_tag.get_text(strip=True) if name_tag else "NONE"
23.         symbol = symbol_tag.get_text(strip=True) if symbol_tag else "NONE"
24.         price = price_tag.get_text(strip=True) if price_tag else "NONE"
25.
26.         if name != "NONE" or symbol != "NONE":
27.             cryptos.append({
28.                 'rank': rank,
29.                 'name': name,
30.                 'symbol': symbol,
31.                 'price': price
32.             })
33.
34. # Print table
35. if cryptos:
36.     print(f"{'Rank':<6} {'Name':<20} {'Symbol':<10} {'Price':<15}")
37.     print("=" * 60)
38.
39.     for crypto in cryptos:
40.         # Shorten long names for better table alignment
41.         if len(crypto['name']) > 20:
42.             name = crypto['name'][:17] + "..."
```

```
43.     else:
44.         name = crypto['name']
45.
46.         print(f"{crypto['rank']:<6} {name:<20} {crypto['symbol']:<10}
47.         {crypto['price']:<15}")
48. print(f"\nSuccessfully scraped {len(cryptos)} cryptocurrencies!")
49.
```

Sample Output:

Rank	Name	Symbol	Price
1	Bitcoin	BTC	\$27,000
2	Ethereum	ETH	\$1,800
...			

Successfully scraped (n) cryptocurrencies!

How it works on my machine:

```
D:\Self Learning\Courses\Collage\ADV Task\WebScraping
(myenv) λ python scrape.py
Rank  Name                               Symbol  Price
=====
1      CoinMarketCap 20 ... CMC20    $191.66
2      Bitcoin          BTC      $90,271.65
3      Ethereum          ETH      $3,114.24
4      Tether            USDT     $0.9998
5      XRP               XRP      $2.05
6      BNB               BNB      $886.06
7      USDC              USDC     $0.9998
8      Solana            SOL      $132.76
9      TRON              TRX      $0.2809
10     Dogecoin          DOGE     $0.1403
11     Cardano           ADA      $0.4258
12     Bitcoin Cash      BCH      $571.46
13     Chainlink         LINK     $13.74
14     Hyperliquid       HYPE     $27.95
15     UNUS SED LEO      LEO      $9.50

Successfully scraped 15 cryptocurrencies!
```



All Code referenced in this document can be found in my
repository:

<https://github.com/Basem3sam/crypto-scraper>

