Import Libraries

In [243…

```
import pandas as pd
from bs4 import BeautifulSoup
import requests
import time
import datetime

import smtplib
```

Connect to Website

In [244…

```
url = 'https://www.moneycontrol.com/markets/indian-indices/top-nse-50-companies-lis
html_text = requests.get(url).content
soup = BeautifulSoup(html_text, 'lxml')

# Find the element that contains the Nifty 50 index value
nifty_element = soup.find('strong', id='ltp_inNSX')

if nifty_element:
    nifty_value = nifty_element.get_text()
    print("Nifty 50 Index:", nifty_value)
else:
    print("Nifty 50 index value not found.")

niftyChg_element = soup.find('span', id='perChg_inNSX')

if niftyChg_element:
    niftyChg_value = niftyChg_element.get_text()
    print("Nifty Percentage Change:", niftyChg_value)
else:
    print("Nifty Percentage Change value not found.")
```

```
Nifty 50 Index: 19,310.15
Nifty Percentage Change:  -55.10 (-0.28%)
```

Get the Current Date and Time

In [245…

```
import datetime

current_datetime = datetime.datetime.now()

print("Current Date and Time:", current_datetime)
```

```
Current Date and Time: 2023-08-19 16:29:00.703982
```

In [246…

```
import csv
header = ['Nifty 50 Index','Nifty Percentage Change','Date & Time']
data = [nifty_value,niftyChg_value,current_datetime]

with open('MoneycontrolWebScrapperDataset.csv','w',newline='',encoding='UTF8') as 
    writer = csv.writer(f)                      #creating csv
    writer.writerow(header)                     #insertion of heading
    writer.writerow(data)                       #insertion of data
```

In [247…
```
import pandas as pd
df = pd.read_csv(r'C:\Users\LENOVO\MoneycontrolWebScrapperDataset.csv')
print(df)
```

```
  Nifty 50 Index Nifty Percentage Change                 Date & Time
0      19,310.15         -55.10 (-0.28%)  2023-08-19 16:29:00.703982
```

Now Appending Data to the CSV

In [248…
```
with open('MoneycontrolWebScrapperDataset.csv', 'a+', newline='', encoding='UTF8')
    writer = csv.writer(f)

    # Write header if the file is empty (only for the first time)
    if f.tell() == 0:
        writer.writerow(header)

    writer.writerow(data)
```

In [249…
```
def check_index():
    url = 'https://www.moneycontrol.com/markets/indian-indices/top-nse-50-companies
    html_text = requests.get(url).content
    soup = BeautifulSoup(html_text, 'lxml')

    nifty_element = soup.find('strong', id='ltp_inNSX')
    nifty_value_text = nifty_element.get_text() if nifty_element else "N/A"
    nifty_value = float(nifty_value_text.replace(',', '')) if nifty_value_text !=

    niftyChg_element = soup.find('span', id='perChg_inNSX')
    niftyChg_value = niftyChg_element.get_text() if niftyChg_element else "N/A"

    current_datetime = datetime.datetime.now()

    header = ['Nifty 50 Index', 'Nifty Percentage Change', 'Date & Time']
    data = [nifty_value, niftyChg_value, current_datetime]

    with open('MoneycontrolWebScrapperDataset.csv', 'a+', newline='', encoding='UT
        writer = csv.writer(f)
        writer.writerow(data)
```

Setting Timer

In [ ]:
```
while True:
    check_index()
    time.sleep(1)
```

In [252…
```
import pandas as pd
df = pd.read_csv(r'C:\Users\LENOVO\MoneycontrolWebScrapperDataset.csv')
print(df)
```

	Nifty 50 Index	Nifty Percentage Change	Date & Time
0	19,310.15	-55.10 (-0.28%)	2023-08-19 16:29:00.703982
1	19,310.15	-55.10 (-0.28%)	2023-08-19 16:29:00.703982
2	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:01.378198
3	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:02.715338
4	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:04.446524
5	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:05.818491
6	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:07.194668
7	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:08.616608
8	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:09.976176
9	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:11.417385
10	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:12.809737
11	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:14.142393
12	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:15.545104
13	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:16.964730
14	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:18.320101
15	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:19.704162
16	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:21.033720
17	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:22.524580
18	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:23.841786
19	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:26.252512
20	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:27.741694
21	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:29.337567
22	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:32.234385
23	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:33.862769
24	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:35.305936
25	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:36.798290
26	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:38.683896
27	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:40.082559
28	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:41.475856
29	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:42.832988
30	19310.15	-55.10 (-0.28%)	2023-08-19 16:29:44.625278

In [ ]:

In [ ]: