

## Exploring autoscrapper for learning purpose

```
In [ ]: from autoscraper import AutoScraper
```

```
In [ ]: url = 'https://weather.com/en-IN/weather/tenday/l/d253814420804f28d49f7a75130e71b797c3c93f9ded842eaf6769e3784da'
wanted = ['Thu 19 ', 'Night', '9°', 'Cloudy', 'Cloudy. Low 9°C. Winds NNW and variable']
```

```
In [ ]: scraper = AutoScraper()
result = scraper.build(url,wanted)
print(result)

['19°', '7°', '20°', '9°', '10°', '18°', '12°', '11°', '17°', '16°', '8°']
```

## Using BeautifulSoup for Assignment

```
In [ ]: import pandas as pd
import requests
from bs4 import BeautifulSoup
```

```
In [ ]: detail = requests.get('https://weather.com/en-IN/weather/tenday/l/d253814420804f28d49f7a75130e71b797c3c93f9ded8')
```

```
In [ ]: soup = BeautifulSoup(detail, 'lxml')
```

Exploring the functionalities of beautifulsoup and its applications on the webpage before using

```
In [ ]: soup.find_all('h3',class_="DailyContent--daypartName--3emSU")[0]
```

```
Out[ ]: <h3 class="DailyContent--daypartName--3emSU"><span class="DailyContent--daypartDate--3VGlz">Sat 21</span> | Day
</h3>
```

```
In [ ]: for i in soup.find_all('h3'):
    print(i.text.strip())
```

Special Forecasts

Today

Sat 21 | Day

Sat 21 | Night

Sun 22

Sun 22 | Day

Sun 22 | Night

Mon 23

Mon 23 | Day

Mon 23 | Night

Tue 24

Tue 24 | Day

Tue 24 | Night

Wed 25

Wed 25 | Day

Wed 25 | Night

Thu 26

Thu 26 | Day

Thu 26 | Night

Fri 27

Fri 27 | Day

Fri 27 | Night

Sat 28

Sat 28 | Day

Sat 28 | Night

Sun 29

Sun 29 | Day

Sun 29 | Night

Mon 30

Mon 30 | Day

Mon 30 | Night

Tue 31

Tue 31 | Day

Tue 31 | Night

Wed 01

Wed 01 | Day

Wed 01 | Night

Thu 02

Thu 02 | Day

Thu 02 | Night

Fri 03

Fri 03 | Day

Fri 03 | Night

Sat 04

Sat 04 | Day

Sat 04 | Night

```
In [ ]: short_desc=[]
desc1 =soup.find_all('span',class_="DetailsSummary--extendedData--307Ax")
```

```
for i in desc1:
    short_desc.append(i.text.strip())
```

```
In [ ]: short_desc ## got one of out required values
```

```
Out[ ]: ['Sunny',
'Sunny',
'Mostly Sunny',
'Showers',
'T-Showers',
'Scattered T-Storms',
'Scattered T-Storms',
'Scattered T-Storms',
'Showers',
'AM Showers',
'Sunny',
'Sunny',
'Partly Cloudy',
'Sunny',
'Sunny']
```

```
In [ ]: #Duplicating the values of short description to make the table shape of 30
for j in range(1,(len(short_desc)*2),2):
    short_desc.insert(j,short_desc[j-1])
```

```
In [ ]: len(short_desc)
```

```
Out[ ]: 30
```

```
In [ ]: day_wise = soup.find_all('div',class_='DaypartDetails--Content--2Yg3_DaypartDetails--contentGrid--2_szQ')
#storing all 15 day weather data in one variable, then will extract from them the required dat day by day
```

```
In [ ]: len(day_wise)
```

```
Out[ ]: 15
```

```
In [ ]: day = [] #for storing day and date
temp = [] #for storing temperature
desc = [] #for storing short description for each day
for i in day_wise:
    for j in range(2):#to capture day and night details of each date
        day.append(i.find_all('h3',class_="DailyContent--daypartName--3emSU")[j].text.strip())
        temp.append(i.find_all('span',class_="DailyContent--temp--1s3a7")[j].text.strip())
        desc.append(i.find_all('p',class_="DailyContent--narrative--3Ti6_")[j].text.strip())
```

```
In [ ]: #converting to dataframe
d = {'day':day,'temp':temp,'short_desc':short_desc,'desc':desc}
df = pd.DataFrame(d)
```

```
In [ ]: df
```

Out[ ]:

	day	temp	short_desc	desc
0	Sat 21   Day	19°	Sunny	Generally clear. High 19°C. Winds WNW and vari...
1	Sat 21   Night	7°	Sunny	Generally clear. Low 7°C. Winds N and variable.
2	Sun 22   Day	20°	Sunny	Generally clear. High 20°C. Winds NW at 10 to ...
3	Sun 22   Night	9°	Sunny	Generally clear. Low 9°C. Winds NNE and variable.
4	Mon 23   Day	20°	Mostly Sunny	Generally clear. High 20°C. Winds NW and varia...
5	Mon 23   Night	10°	Mostly Sunny	Partly cloudy. Low 10°C. Winds NNE and variable.
6	Tue 24   Day	18°	Showers	Showers. High 18°C. Winds ESE at 10 to 15 km/h...
7	Tue 24   Night	12°	Showers	Light rain. Low 12°C. Winds SE and variable. C...
8	Wed 25   Day	18°	T-Showers	Thundershowers. High 18°C. Winds SSE at 10 to ...
9	Wed 25   Night	11°	T-Showers	Thunderstorms. Low 11°C. Winds NNE and variabl...
10	Thu 26   Day	18°	Scattered T-Storms	Scattered thunderstorms. High 18°C. Winds WNW ...
11	Thu 26   Night	11°	Scattered T-Storms	Thunderstorms. Hazy. Low 11°C. Winds NE and va...
12	Fri 27   Day	19°	Scattered T-Storms	Scattered thunderstorms. High 19°C. Winds WNW ...
13	Fri 27   Night	11°	Scattered T-Storms	Scattered thunderstorms. Low 11°C. Winds NNE a...
14	Sat 28   Day	18°	Scattered T-Storms	Scattered thunderstorms. High 18°C. Winds WSW ...
15	Sat 28   Night	10°	Scattered T-Storms	Showers. Low 10°C. Winds NE and variable. Chan...
16	Sun 29   Day	17°	Showers	Showers. High 17°C. Winds WSW and variable. Ch...
17	Sun 29   Night	9°	Showers	Showers. Low 9°C. Winds NE and variable. Chanc...
18	Mon 30   Day	16°	AM Showers	Morning showers. High 16°C. Winds WNW at 10 to...
19	Mon 30   Night	7°	AM Showers	Generally clear. Low 7°C. Winds NNW and variable.
20	Tue 31   Day	17°	Sunny	Generally clear. High 17°C. Winds NW at 10 to ...
21	Tue 31   Night	7°	Sunny	Generally clear. Low 7°C. Winds NNW and variable.
22	Wed 01   Day	17°	Sunny	Generally clear. High 17°C. Winds NW at 10 to ...
23	Wed 01   Night	7°	Sunny	Generally clear. Low 7°C. Winds NNW and variable.
24	Thu 02   Day	18°	Partly Cloudy	Partly cloudy. High 18°C. Winds NW at 10 to 15...
25	Thu 02   Night	8°	Partly Cloudy	Generally clear. Low 8°C. Winds N and variable.
26	Fri 03   Day	19°	Sunny	Generally clear. High 19°C. Winds WNW and vari...
27	Fri 03   Night	8°	Sunny	Generally clear. Low 8°C. Winds NNE and variable.
28	Sat 04   Day	19°	Sunny	Generally clear. High 19°C. Winds WNW and vari...
29	Sat 04   Night	9°	Sunny	Generally clear. Low 9°C. Winds NE and variable.