

NATIONAL UNIVERSITY OF COMPUTER & EMERGING SCIENCES PESHAWAR CAMPUS



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Problem Set :Implement 02Semester:FALL 2021Course:CS301 Theory of AutomataInstructor:Shakir

WEB SCRAPPING PROJECT WEATHER DATA EXTRACTION USING PYTHON

AIM:

To extract data from weather forcast website by using beautiful soap, and find all desire values you want from that extraction usinf find() function.

CODE

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```
import requests
from bs4 import BeautifulSoup

city = str(input("Enter city name= "))
url = "https://www.google.com/search?q="+"weather"+city

html = requests.get(url).content

soup = BeautifulSoup(html, 'html.parser')
#print(soup)
temp = soup.find('div',attrs={'class': 'BNeawe iBp4i AP7Wnd'}).text

time_skyDescription = soup.find('div',attrs={'class': 'BNeawe tAd8D AP7Wnd'}).text

data = time_skyDescription.split('\n')
time =data[0]
sky = data[1]

print("Temperature is ", temp)
print("Time:", time)
print("Sky Description:", sky)
```

FULL EXTRACTED DATA

```
Python 3.10.0 (tags/v3.10.0;b49f59, Oct 4 2021, 19:00;18) [MSC v.1929 66 bit (AND64)] on win32
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EXTRACT WANTED DATA BY USING FIND() FUNCTION

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scrap.py
Enter city name= lahore
Temperature is 7°C
Time: Thursday 11:23 pm
Sky Description: Fog
>>>
```