WEATHER APPLICATION CODE : -

AP21110010226

from bs4 import BeautifulSoup

import requests

import json

headers = {

'User-Agent':

'Mozilla/5.0 (Windows NT 10.0;Win64; x64) AppleWebKit/537.36 (KHTML, likeGecko) Chrome/58.0.3029.110 Safari/537.3'}

def weather(city):

city = city.replace(" ", "+")

res = requests.get(f'https://www.google.com/search?q={city}&oq={city}&aqs=chrome.0.35i39l2j0l4j46j69i60.6128j1j7&sourceid=chrome&ie=UTF-8',headers=headers)

print("Searching...\n")

soup = BeautifulSoup(res.text, 'html.parser')

try:

location = soup.select('#wob\_loc')[0].getText().strip()

time = soup.select('#wob\_dts')[0].getText().strip()

info = soup.select('#wob\_dc')[0].getText().strip()

weather = soup.select('#wob\_tm')[0].getText().strip()

prec = soup.select('#wob\_pp')[0].getText().strip()

hum = soup.select('#wob\_hm')[0].getText().strip()

wind = soup.select('#wob\_ws')[0].getText().strip()

print(location)

print("Last Updated ",time)

print(info)

print("Temperature =", weather+"°C")

print("precipitation =",prec)

print("humidity =" , hum)

print("wind =", wind)

d={}

d['username']=username

d['location']=location

d['time']=time

d['info']=info

d['weather']=weather

d['precipitation']=prec

d['humidity']=hum

d['wind']=wind

data=[]

data.append(d)

with open('sample.json', "a") as f:

json.dump(d, f, indent = 4)

except:

print("Enter a valid city name!")

weatherinput()

username=input("Enter your name: ")

def weatherinput():

city = input("Enter your city: ")

city = city+" weather"

weather(city)

weatherinput()

print("Have a Nice Day",username,":)")