***Weather API Code***

import requests

import json

def get\_weather(city):

# Replace 'YOUR\_API\_KEY' with your actual API key from OpenWeatherMap

api\_key = 'YOUR\_API\_KEY'

base\_url = 'https://api.openweathermap.org/data/2.5/weather'

# Prepare the parameters for the API request

params = {

'q': city,

'appid': api\_key,

'units': 'metric' # Change to 'imperial' for Fahrenheit

}

try:

# Send a GET request to the API

response = requests.get(base\_url, params=params)

response.raise\_for\_status() # Raise an exception if the request fails

# Parse the JSON response

weather\_data = response.json()

# Extract the relevant weather information

temperature = weather\_data['main']['temp']

description = weather\_data['weather'][0]['description']

# Print the weather forecast

print(f"Weather forecast for {city}:")

print(f"Temperature: {temperature}°C")

print(f"Description: {description}")

except requests.exceptions.RequestException as e:

print(f"An error occurred: {e}")

if \_\_name\_\_ == '\_\_main\_\_':

city\_name = input("Enter a city name: ")

get\_weather(city\_name)