**WEATHER UPDATES APP**

Here's how to create a weather update application using Python:

1. Get an API Key:

* Sign up for a free API key from a weather data provider like OpenWeatherMap or WeatherAPI. This key will allow your application to access weather data.

2. Install Libraries:

* Install the requests library to make HTTP requests to the weather API:

Code

pip install requests

Install tkinter library for creating GUI.

Code

Create a function to fetch weather data:

Python

def get\_weather(city):  
 try:  
 url = f"{BASE\_URL}?appid={API\_KEY}&q={city}&units=metric" *# Example for metric units*  
 response = requests.get(url)  
 response.raise\_for\_status() *# Raise HTTPError for bad responses (4xx or 5xx)*  
 weather\_data = response.json()  
 return weather\_data  
 except requests.exceptions.RequestException as e:  
 messagebox.showerror("Error", f"An error occurred: {e}")  
 return None

* Create a function to display the weather data:

Python

def display\_weather(weather\_data):  
 if weather\_data:  
 city\_name = weather\_data["name"]  
 temperature = weather\_data["main"]["temp"]  
 description = weather\_data["weather"][0]["description"]  
 messagebox.showinfo("Weather", f"Weather in {city\_name}:\nTemperature: {temperature}°C\nDescription: {description}")

CODE

def get\_weather(api\_key, city):

base\_url = f"http://api.openweathermap.org/data/2.5/weather?q={city}&appid={api\_key}&units=metric"

response = requests.get(base\_url)

weather\_data = response.json()

return weather\_data

def display\_weather(weather\_data):

city = weather\_data['GUNTUR']

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

temperature = weather\_data['main']['23.4']

humidity = weather\_data['main']['88']

wind\_speed = weather\_data['wind']['4.3']

print(f"Weather in {city}:")

print(f"Description: {weather\_description}")

print(f"Temperature: {23.4}°C")

print(f"Humidity: {88}%")

print(f"Wind Speed: {4.3} m/s")

def main():

api\_key = "YOUR\_OPENWEATHERMAP\_API\_KEY"

city = input("GUNTUR: ")

weather\_data = get\_weather(api\_key, city)

display\_weather(weather\_data)

LINK

<https://www.programiz.com/online-compiler/4nSYMalhYmIHV>