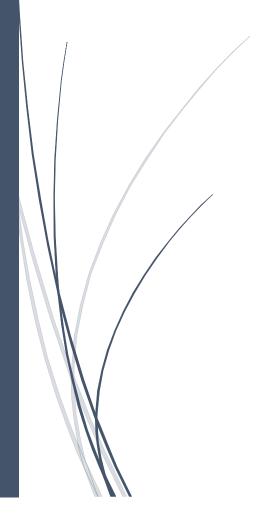
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PYTHON COURSE PROJECT ASSIGNMENT

WEATHER APPLICATION



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İçindekiler Tablosu

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A.Project Name

Weather application

B.Purpose

Application that gives the weather, temperature, humidity, pressure, wind speed, time and date of your current location and desired city.

C.Code Section

a.By_city

```
def by_city():
    city = input("Please enter the city you want to know the weather:")
    print('-----')
    url = 'http://api.openweathermap.org/data/2.5/weather?q={}&appid=e10ca2a3a
        city)
    res = requests.get(url)
    data = res.json()
    show_data(data)
```

By using Open Weather Api, the weather information of the desired city was obtained. It shows the weather, temperature, humidity, pressure, wind speed and city name of the desired city.

b.By_location

```
place def by_location():
    res = requests.get('https://ipinfo.io')
    data = res.json()

location = data['loc'].split(',')
latitude = location[0]
longitude = location[1]

print('Weather in your location:')
print('-----')
url = 'http://api.openweathermap.org/data/2.5/weather?lat={}&lon={}&appid=e10ca2a3ad4b1f
    latitude, longitude)
    res = requests.get(url)
    data = res.json()
show_data(data)
```

By using Open Weather Api, the weather information of the desired city was obtained. It shows the weather, temperature, humidity, pressure, wind speed and city name of your location.

c.Show_data

```
temp = data['main']['temp']
wind_speed = data['wind']['speed']
pressure = data['main']['pressure']
humidity = data['main']['humidity']
description = data['weather'][0]['description']
name = data['name']

t = time.localtime()
print("%s" % time.asctime(t))
print('City: {}'.format(name))
print('City: {}'.format(name))
print('Temperature: {} Degree Celsius'.format(temp))
print('Wind Speed: {} m/s'.format(wind_speed))
print('------')
print('Pressure: {}'.format(pressure))
print('Humidity: {}'.format(humidity))
print('------')
print('Humidity: {}'.format(description))
```

In this section, we select the data we want among the data captured in the by_city and by_location sections and print.

d.Fivedays

Five-day weather data is called using open weather.

e.Main

```
pdef main():
    print('1.Get by weather by city')
    print('2.Get by weather by location')
    print('3.Next five days weather')
    choice = input('Please enter your choice:')

if choice == '1':
    by_city()
    elif choice == '2':
        by_location()
    elif choice == '3':
        fivedays()
    else:
        print("ERROR!!! PLEASE SELECT AGAIN!!!")

if __name__ == '__main__':
    main()
```

In this section, it allows us to choose the weather according to your location or desired city.

D.OUTPUT SECTION

As seen in the output, when we select the first option, it asks us about the city we want to know the weather and gives the weather information about the city we chose.

When we select the second option, it shows the weather of the current location. It gives an error if a different option is entered.

In the last option, the last five days weather information of the desired province is printed.