

```
# -*- coding: utf-8 -*-  
"""
```

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```
"""
```

```
# impoterer nødvendige bibliotek
```

```
from yr.libyr import Yr
```

```
import pandas as pd
```

```
import requests
```

```
import json
```

```
# Definerer funksjonen som kalles i hovedprogrammet
```

```
def get_weather():
```

```
    # henter værdata fra yr og lagrer temperatur, vindhastighet og nedbørsmengde
```

```
    weather_df = Yr(location_name='Norge/Trøndelag/Trondheim/Trondheim')
```

```
    now_df = weather_df.now()
```

```
    temp_val = int(pd.DataFrame(now_df)['temperature']['@value']) # temp i Celsius
```

```
    wind_val = float(pd.DataFrame(now_df)['windSpeed']['@mps']) # vindhastighet i mps
```

```
    precipitation_val = float(pd.DataFrame(now_df)['precipitation']['@value']) # nedbørsmengde i mm
```

```
    # Definerer token for overførsel av data til CoT
```

```
    token = 'eyJhbGciOiJIUzI1NiJ9.eyJqdGkiOiI1NzUxIn0.DeRcDo1IRe0fFV_Iew8WyUbEd02hwzWikjARXvc2oEE'
```

```
    # sender temperatur til CoT
```

```
    temp_key = '12583'
```

```
    temp_data = {'Key': temp_key, 'Value': temp_val, 'Token': token}
```

```
    t_put = requests.put('https://circusofthings.com/WriteValue',
```

```
                        data = json.dumps(temp_data),
```

```
                        headers={'Content-Type': 'application/json'})
```

```
    # sender vindhastighet til CoT
```

```
    wind_key = '8760'
```

```
    wind_data = {'Key': wind_key, 'Value': wind_val, 'Token': token}
```

```
    w_put = requests.put('https://circusofthings.com/WriteValue',
```

```
                        data = json.dumps(wind_data),
```

```
                        headers={'Content-Type': 'application/json'})
```

```
    # sender nedbørsmengde til CoT
```

```
    precipitation_key = '6464'
```

```
    precipitation_data = {'Key': precipitation_key, 'Value': precipitation_val, 'Token': token}
```

```
    p_put = requests.put('https://circusofthings.com/WriteValue',
```

```
                        data = json.dumps(precipitation_data),
```

```
                        headers={'Content-Type': 'application/json'})
```