Portofolio forecast West Java

cleaning and visualization of West Java forecast data

```
[83] # Open file and read file

     import pandas as pd
     df = pd.read_csv('/content/kecamatanforecast-jawabarat.csv')
     print(df)
```

```
                5009222;2024-07-17 00:00:00;;;;;95;22;1;N;0
0            5009222;2024-07-17 03:00:00;;;;;75;27;1;SE;10
1           5009222;2024-07-17 06:00:00;;;;;80;27;60;SE;20
2           5009222;2024-07-17 09:00:00;;;;;80;26;60;SE;20
3        5009222;2024-07-17 12:00:00;22;27;75;95;75;25;...
4             5009222;2024-07-17 15:00:00;;;;;80;25;1;E;10
...                                                     ...
26074         5009846;2024-07-22 18:00:00;;;;;95;24;0;E;10
26075         5009846;2024-07-23 00:00:00;;;;;85;24;1;S;10
26076         5009846;2024-07-23 06:00:00;;;;;50;33;0;E;10
26077  5009846;2024-07-23 12:00:00;24;33;50;95;90;28;...
26078         5009846;2024-07-23 18:00:00;;;;;95;25;0;S;20

[26079 rows x 1 columns]
```

✓ 0 d selesai pada 22.48

Cleaning and Visualization of West Java forecast data, using Pandas and tools using Google Colab.
The meaning of the code is stated above the code.

```
# displays the last 5 rows

print(df.tail(5))
```

```
             5009222;2024-07-17 00:00:00;;;;;95;22;1;N;0
26074       5009846;2024-07-22 18:00:00;;;;;95;24;0;E;10
26075       5009846;2024-07-23 00:00:00;;;;;85;24;1;S;10
26076       5009846;2024-07-23 06:00:00;;;;;50;33;0;E;10
26077  5009846;2024-07-23 12:00:00;24;33;50;95;90;28;...
26078       5009846;2024-07-23 18:00:00;;;;;95;25;0;S;20
```

```
[85] # find missing values

print(df.isnull().sum())
```

```
5009222;2024-07-17 00:00:00;;;;;95;22;1;N;0    0
dtype: int64
```

```
[86] # Removes all columns that have missing values

df = df.dropna(axis=1)
```

```python
# find duplicate

df = (df.duplicated())
print(df)
```

```
0        False
1        False
2        False
3        False
4        False
         ...
26074    False
26075    False
26076    False
26077    False
26078    False
Length: 26079, dtype: bool
```

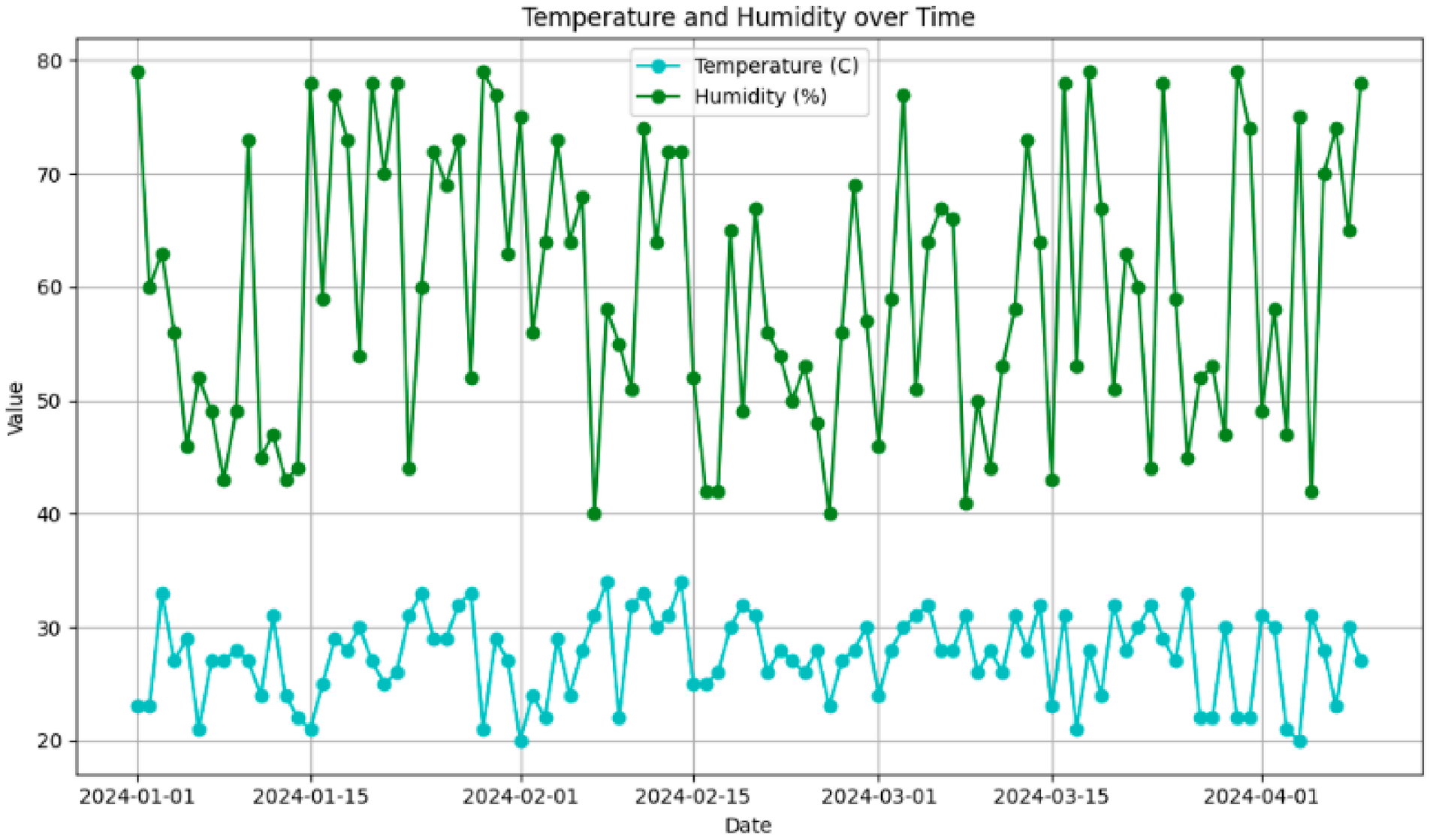
```python
[88] # weather data

data = {
    'Date': pd.date_range('2024-01-01', periods=100),
    'Temperature': np.random.randint(20, 35, 100),
    'Humidity': np.random.randint(40, 80, 100)
}
```

```
# Temperature and humidity time plot

plt.figure(figsize=(10, 6))
plt.plot(df['Date'], df['Temperature'], marker='o', linestyle='-', color='c', label='Temperature (C)')
plt.plot(df['Date'], df['Humidity'], marker='o', linestyle='-', color='g', label='Humidity (%)')
plt.xlabel('Date')
plt.ylabel('Value')
plt.title('Temperature and Humidity over Time')
plt.legend()
plt.grid(True)
plt.tight_layout()
plt.show()
```

this is the results from Time Data Visualization



✓ 0 d selesai pada 22.48