


```
import pandas as pd
data = pd.read_csv("Malaysia weather dataset.csv")
```

data

	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex	severerisk	sunrise	sunset	moonphase	conditions	descripti
0	Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	80.2	...	18.3	8	30	2023-07-01T07:08:02	2023-07-01T19:26:04	0.42	Rain, Partially cloudy	Partly clou through the day w rain cl
1	Malaysia	2023-07-02	32.0	26.9	29.4	37.9	30.4	34.1	24.3	75.1	...	19.6	7	30	2023-07-02T07:08:15	2023-07-02T19:26:14	0.46	Partially cloudy	Partly clou through the d
2	Malaysia	2023-07-03	32.6	27.6	29.8	40.7	31.7	35.5	24.8	75.4	...	14.8	7	60	2023-07-03T07:08:27	2023-07-03T19:26:24	0.50	Partially cloudy	Partly clou through the d
3	Malaysia	2023-07-04	33.7	25.8	28.6	41.1	25.8	32.7	24.8	81.1	...	18.8	8	60	2023-07-04T07:08:40	2023-07-04T19:26:34	0.52	Partially cloudy	Partly clou through the d
4	Malaysia	2023-07-05	32.7	23.5	26.9	39.3	23.5	29.3	24.1	86.0	...	21.5	8	60	2023-07-05T07:08:52	2023-07-05T19:26:43	0.56	Rain, Partially cloudy	Partly clou through the day w re
...
349	Malaysia	2024-06-14	31.7	27.1	28.8	38.8	30.8	34.6	25.7	83.6	...	16.2	8	60	2024-06-14T07:04:34	2024-06-14T19:22:41	0.25	Rain, Partially cloudy	Partly clou through the day w a chanc
350	Malaysia	2024-06-15	33.0	25.1	28.6	40.3	25.1	32.4	25.0	82.0	...	18.5	8	30	2024-06-15T07:04:46	2024-06-15T19:22:55	0.28	Rain, Partially cloudy	Partly clou through the day w a chanc
351	Malaysia	2024-06-16	30.0	26.1	27.4	35.1	26.1	30.9	25.0	86.9	...	8.2	6	30	2024-06-16T07:04:58	2024-06-16T19:23:08	0.31	Rain, Partially cloudy	Partly clou through the day w a chanc
352	Malaysia	2024-06-17	32.4	25.0	26.5	38.4	25.0	27.9	23.9	86.6	...	13.6	7	30	2024-06-17T07:05:11	2024-06-17T19:23:22	0.34	Rain, Partially cloudy	Partly clou through the day w a chanc
353	Malaysia	2024-06-18	32.7	23.9	26.8	37.9	23.9	28.3	22.7	79.3	...	24.2	9	30	2024-06-18T07:05:23	2024-06-18T19:23:35	0.37	Rain, Partially cloudy	Partly clou through the day w storms

354 rows × 33 columns

data.head(2)



	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex	st
0	Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	80.2	...	18.3	8	
1	Malaysia	2023-07-02	32.0	26.9	29.4	37.9	30.4	34.1	24.3	75.1	...	19.6	7	

2 rows × 33 columns

▼ INFO

data.info()




```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 354 entries, 0 to 353
Data columns (total 33 columns):
#   Column                Non-Null Count  Dtype
---  -
0   name                   354 non-null    object
1   datetime               354 non-null    object
2   tempmax                354 non-null    float64
3   tempmin                354 non-null    float64
4   temp                   354 non-null    float64
5   feelslikemax           354 non-null    float64
6   feelslikemin           354 non-null    float64
7   feelslike              354 non-null    float64
8   dew                    354 non-null    float64
9   humidity               354 non-null    float64
10  precip                 354 non-null    float64
11  precipprob             354 non-null    int64
12  precipcover            354 non-null    float64
13  preciptype             341 non-null    object
14  snow                   354 non-null    int64
15  snowdepth              354 non-null    int64
16  windgust               354 non-null    float64
17  windspeed              354 non-null    float64
18  winddir                354 non-null    float64
19  sealevelpressure       354 non-null    float64
20  cloudcover             354 non-null    float64
21  visibility              354 non-null    float64
22  solarradiation          354 non-null    float64
23  solarenergy            354 non-null    float64
24  uvindex                354 non-null    int64
25  severerisk             354 non-null    int64
26  sunrise                354 non-null    object
27  sunset                 354 non-null    object
28  moonphase              354 non-null    float64
29  conditions             354 non-null    object
30  description            354 non-null    object
31  icon                   354 non-null    object
32  stations               354 non-null    object
```

dtypes: float64(19), int64(5), object(9)
memory usage: 91.4+ KB

DESCRIBE

data.describe()




	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	precip	precipprob	.
count	354.000000	354.000000	354.00000	354.000000	354.000000	354.000000	354.000000	354.000000	354.000000	354.000000	
mean	33.011017	25.444068	28.35000	39.649153	25.806215	31.772316	24.322034	80.105932	7.032638	70.338983	
std	1.416902	0.877113	1.00405	2.225760	1.744198	2.092391	0.740125	5.430884	12.479956	45.740967	
min	27.100000	21.400000	25.70000	30.900000	21.400000	26.600000	21.600000	61.100000	0.000000	0.000000	
25%	32.100000	24.900000	27.60000	38.225000	24.900000	30.300000	23.900000	76.800000	0.000000	0.000000	
50%	33.000000	25.300000	28.30000	39.400000	25.300000	31.700000	24.400000	80.950000	0.884000	100.000000	
75%	33.900000	26.000000	29.10000	41.100000	26.000000	33.200000	24.800000	84.375000	8.452750	100.000000	
max	36.000000	27.900000	30.70000	45.800000	32.400000	36.800000	25.900000	92.000000	83.840000	100.000000	

8 rows × 24 columns

DTYPE

data.dtypes



name	object
datetime	object
tempmax	float64
tempmin	float64
temp	float64
feelslikemax	float64
feelslikemin	float64
feelslike	float64
dew	float64
humidity	float64
precip	float64
precipprob	int64
precipcover	float64
preciptype	object
snow	int64
snowdepth	int64
windgust	float64
windspeed	float64
winddir	float64
sealevelpressure	float64
cloudcover	float64
visibility	float64
solarrradiation	float64
solarenergy	float64

```

uvindex          int64
severerisk       int64
sunrise         object
sunset          object
moonphase       float64
conditions       object
description      object
icon            object
stations        object
dtype: object

```

✓ NULL VALUES

```
data.isnull()
```

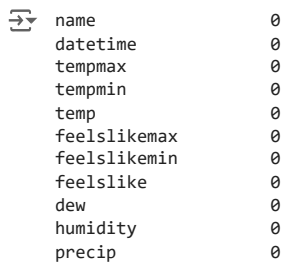


	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex	s
0	False	False	False	False	False	False	False	False	False	False	...	False	False	
1	False	False	False	False	False	False	False	False	False	False	...	False	False	
2	False	False	False	False	False	False	False	False	False	False	...	False	False	
3	False	False	False	False	False	False	False	False	False	False	...	False	False	
4	False	False	False	False	False	False	False	False	False	False	...	False	False	
...	
349	False	False	False	False	False	False	False	False	False	False	...	False	False	
350	False	False	False	False	False	False	False	False	False	False	...	False	False	
351	False	False	False	False	False	False	False	False	False	False	...	False	False	
352	False	False	False	False	False	False	False	False	False	False	...	False	False	
353	False	False	False	False	False	False	False	False	False	False	...	False	False	

354 rows × 33 columns

✓ SUM OF NULL VALUES

```
data.isnull().sum()
```




	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	precip
	0	0	0	0	0	0	0	0	0	0	0

```
precipprob      0
precipcover     0
preciptype     13
snow            0
snowdepth      0
windgust        0
windspeed      0
winddir         0
sealevelpressure 0
cloudcover      0
visibility      0
solarradiation  0
solarenergy     0
uvindex         0
severerisk      0
sunrise         0
sunset          0
moonphase       0
conditions      0
description     0
icon            0
stations        0
dtype: int64
```

NOT NULL VALUES

data.notnull()




	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex	se
0	True	True	True	True	True	True	True	True	True	True	...	True	True	
1	True	True	True	True	True	True	True	True	True	True	...	True	True	
2	True	True	True	True	True	True	True	True	True	True	...	True	True	
3	True	True	True	True	True	True	True	True	True	True	...	True	True	
4	True	True	True	True	True	True	True	True	True	True	...	True	True	
...	
349	True	True	True	True	True	True	True	True	True	True	...	True	True	
350	True	True	True	True	True	True	True	True	True	True	...	True	True	
351	True	True	True	True	True	True	True	True	True	True	...	True	True	
352	True	True	True	True	True	True	True	True	True	True	...	True	True	
353	True	True	True	True	True	True	True	True	True	True	...	True	True	

354 rows × 33 columns

SUM OF NOT NULL VALUES

```
data.notnull().sum()
```

	name	354
	datetime	354
	tempmax	354
	tempmin	354
	temp	354
	feelslikemax	354
	feelslikemin	354
	feelslike	354
	dew	354
	humidity	354
	precip	354
	precipprob	354
	precipcover	354
	preciptype	341
	snow	354
	snowdepth	354
	windgust	354
	windspeed	354
	winddir	354
	sealevelpressure	354
	cloudcover	354
	visibility	354
	solarradiation	354
	solarenergy	354
	uvindex	354
	severerisk	354
	sunrise	354
	sunset	354
	moonphase	354
	conditions	354
	description	354
	icon	354
	stations	354
	dtype: int64	

VALUE_COUNTS

```
data.value_counts()
```

name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	precip	precipprob	precipcover	preciptype	snow	snowdepth	windgust	windspeed	winddir
sealevelpressure	cloudcover	visibility	solarradiation	solarenergy	uvindex	severerisk	sunrise				sunset	moonphase	conditions					description
icon	stations																	
Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	80.2	5.829	100	8.33	rain	0	0	11.5	18.1	278.2
1010.6	48.7	9.8	213.2	18.3	8	30	2023-07-01T07:08:02	2023-07-01T19:26:04	0.42	Rain, Partially cloudy	Partly cloudy throughout							
the day with rain clearing later.					rain	48647099999,48650099999,WMSA,WMKK	1											
	2024-02-24	33.9	25.9	28.3	40.9	25.9	31.9	24.7	81.9	8.841	100	4.17	rain	0	0	6.8	18.6	186.4
1011.1	51.1	9.4	296.3	25.5	10	30	2024-02-24T07:25:21	2024-02-24T19:27:51	0.50	Rain, Partially cloudy	Partly cloudy throughout							
the day with late afternoon rain.					rain	48647099999,48650099999,WMSA,WMKK	1											
	2024-03-03	32.2	26.0	28.6	37.3	26.0	32.3	24.4	79.3	4.530	100	4.17	rain	0	0	12.6	9.8	53.5
1010.3	53.8	9.4	244.0	21.3	9	30	2024-03-03T07:23:15	2024-03-03T19:27:03	0.75	Rain, Partially cloudy	Partly cloudy throughout							
the day with morning rain.					rain	48647099999,48650099999,WMSA,WMKK	1											
	2024-03-02	33.2	25.9	28.3	39.8	25.9	32.0	24.9	82.9	36.838	100	4.17	rain	0	0	8.3	13.9	291.1
1010.4	51.6	9.5	232.2	20.0	8	30	2024-03-02T07:23:33	2024-03-02T19:27:11	0.72	Rain, Partially cloudy	Partly cloudy throughout							
the day with morning rain.					rain	48647099999,48650099999,WMSA,WMKK	1											
	2024-03-01	33.8	25.9	29.1	40.1	25.9	32.1	24.1	76.7	6.235	100	4.17	rain	0	0	6.8	16.9	314.0
1009.9	51.6	9.1	221.6	19.1	8	30	2024-03-01T07:23:50	2024-03-01T19:27:18	0.69	Rain, Partially cloudy	Partly cloudy throughout							

```
the day with late afternoon rain.          rain          48647099999,48650099999,WMSA,WMKK          1

..
2023-10-31 33.0    25.0    27.8 41.7          25.0          30.2    24.1 81.5    23.869 100          8.33    rain    0    0    5.4    19.0    228.2
1009.6          52.4    9.6          280.1    24.0          9    60          2023-10-31T06:56:33    2023-10-31T18:57:08    0.57
the day with rain.          rain          48647099999,48650099999,WMSA,WMKK          1
2023-10-30 32.1    24.0    27.0 38.1    24.0    29.2    24.0 84.7    0.000 0          0.00    rain    0    0    5.4    18.8    303.5
1009.7          47.5    9.4          251.0    21.7          9    30          2023-10-30T06:56:32    2023-10-30T18:57:15    0.54
the day.          partly-cloudy-day 48647099999,48650099999,WMSA,WMKK          1
2023-10-29 32.9    23.6    26.5 39.1    23.6    28.0    23.7 85.9    54.812 100          8.33    rain    0    0    7.9    17.1    306.0
1010.4          50.6    8.3          279.6    24.0    10    60          2023-10-29T06:56:31    2023-10-29T18:57:24    0.50
the day with rain in the morning and afternoon. rain 48647099999,48650099999,WMSA,WMKK          1
2023-10-28 33.2    24.9    26.8 39.4    24.9    28.4    24.2 86.5    0.464 100          4.17    rain    0    0    38.9    18.1    27.4
1010.8          54.9    7.3          230.3    19.9          9    30          2023-10-28T06:56:32    2023-10-28T18:57:33    0.48
the day with afternoon rain.          rain          48647099999,48650099999,WMSA,WMKK          1
2024-06-18 32.7    23.9    26.8 37.9    23.9    28.3    22.7 79.3    2.200 100          37.50    rain    0    0    13.0    13.5    283.4
1009.7          43.3    14.9          280.0    24.2          9    30          2024-06-18T07:05:23    2024-06-18T19:23:35    0.37
the day with storms possible.          rain          WMSA,WMKK          1
Length: 341, dtype: int64
```

▼ COLUMNS

data.columns

```
Index(['name', 'datetime', 'tempmax', 'tempmin', 'temp', 'feelslikemax',
      'feelslikemin', 'feelslike', 'dew', 'humidity', 'precip', 'precipprob',
      'precipcover', 'preciptype', 'snow', 'snowdepth', 'windgust',
      'windspeed', 'winddir', 'sealevelpressure', 'cloudcover', 'visibility',
      'solarradiation', 'solarenergy', 'uvindex', 'severerisk', 'sunrise',
      'sunset', 'moonphase', 'conditions', 'description', 'icon', 'stations'],
      dtype='object')
```

▼ SHAPES

data.shape

(354, 33)


data.head(2)

	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex	s
0	Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	80.2	...	18.3	8	
1	Malaysia	2023-07-02	32.0	26.9	29.4	37.9	30.4	34.1	24.3	75.1	...	19.6	7	

2 rows × 33 columns

✓ FIND THE RECORD OF THE '20-07-2023' DATE

```
data[data['datetime'] == '2023-07-20']
```




	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex	:
19	Malaysia	2023-07-20	29.7	23.0	26.4	33.9	23.0	28.2	23.3	84.0	...	8.8	7	

1 rows × 33 columns

✓ CALCULATE THE RECORD OF 'TEMPERATURE MAXIMUM IS GREATER THAN 30' AND
✓ 'TEMPERATURE MINIMUM IS LESS THAN 25'

```
data[(data['tempmax'] > 30) & (data['tempmin'] < 25)]
```





	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex
0	Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	80.2	...	18.3	8
4	Malaysia	2023-07-05	32.7	23.5	26.9	39.3	23.5	29.3	24.1	86.0	...	21.5	8
5	Malaysia	2023-07-06	32.8	24.1	26.6	40.3	24.1	28.4	23.8	85.7	...	17.5	8
6	Malaysia	2023-07-07	31.9	24.8	27.2	38.4	24.8	29.2	24.0	83.5	...	21.3	8
7	Malaysia	2023-07-08	31.8	24.9	27.7	37.9	24.9	30.5	24.2	82.1	...	19.0	9
...
252	Malaysia	2024-03-09	34.9	24.0	28.2	38.8	24.0	31.0	23.9	79.8	...	25.3	10
290	Malaysia	2024-04-16	34.9	24.8	28.1	44.0	24.8	32.1	25.3	86.1	...	23.1	10
291	Malaysia	2024-04-17	32.7	24.3	28.1	40.4	24.3	31.7	25.1	84.5	...	11.2	7
308	Malaysia	2024-05-04	31.0	24.8	27.8	36.7	24.8	31.3	24.6	83.2	...	7.1	6
353	Malaysia	2024-06-18	32.7	23.9	26.8	37.9	23.9	28.3	22.7	79.3	...	24.2	9

89 rows × 33 columns

✓ FIND THE VALUES OF FEELSLIKEMAX IS 40 OR FEELSLIKEMIN IS 24


```
data[(data['feelslikemax'] == '40.0') | (data['feelslikemin'] == '24.0')]
```



name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex	severe
0 rows × 33 columns													

✓ FIND THE RECORD OF HUMIDITY IS GREATER THAN 80

```
data[data['humidity'] > 80]
```




	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex
0	Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	80.2	...	18.3	8
3	Malaysia	2023-07-04	33.7	25.8	28.6	41.1	25.8	32.7	24.8	81.1	...	18.8	8
4	Malaysia	2023-07-05	32.7	23.5	26.9	39.3	23.5	29.3	24.1	86.0	...	21.5	8
5	Malaysia	2023-07-06	32.8	24.1	26.6	40.3	24.1	28.4	23.8	85.7	...	17.5	8
6	Malaysia	2023-07-07	31.9	24.8	27.2	38.4	24.8	29.2	24.0	83.5	...	21.3	8
...
341	Malaysia	2024-06-06	30.4	26.1	27.6	36.7	26.1	31.2	25.0	86.1	...	17.2	9
349	Malaysia	2024-06-14	31.7	27.1	28.8	38.8	30.8	34.6	25.7	83.6	...	16.2	8
350	Malaysia	2024-06-15	33.0	25.1	28.6	40.3	25.1	32.4	25.0	82.0	...	18.5	8
351	Malaysia	2024-06-16	30.0	26.1	27.4	35.1	26.1	30.9	25.0	86.9	...	8.2	6
352	Malaysia	2024-06-17	32.4	25.0	26.5	38.4	25.0	27.9	23.9	86.6	...	13.6	7

189 rows × 33 columns

✖ REMOVE THE RECORDS OF MOONPHASE IS GREATER THAN 0.30

```
data[~(data['moonphase'] > 0.30)]
```



	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex
17	Malaysia	2023-07-18	31.1	24.9	28.0	36.8	24.9	31.3	24.0	79.4	...	17.9	8
18	Malaysia	2023-07-19	30.0	24.3	26.2	36.2	24.3	27.6	23.9	87.4	...	16.5	8
19	Malaysia	2023-07-20	29.7	23.0	26.4	33.9	23.0	28.2	23.3	84.0	...	8.8	7
20	Malaysia	2023-07-21	32.9	26.0	29.2	38.9	26.0	32.8	23.7	73.7	...	17.4	8
21	Malaysia	2023-07-22	30.0	24.1	27.1	36.2	24.1	29.8	24.3	84.8	...	21.7	8
...
346	Malaysia	2024-06-11	33.9	26.8	29.5	42.1	29.6	34.7	24.6	76.1	...	21.9	9
347	Malaysia	2024-06-12	32.9	26.0	28.5	39.4	26.0	31.7	23.8	76.9	...	12.0	5
348	Malaysia	2024-06-13	34.7	25.8	29.7	42.9	25.8	33.8	24.2	73.5	...	20.7	8
349	Malaysia	2024-06-14	31.7	27.1	28.8	38.8	30.8	34.6	25.7	83.6	...	16.2	8
350	Malaysia	2024-06-15	33.0	25.1	28.6	40.3	25.1	32.4	25.0	82.0	...	18.5	8

113 rows × 33 columns

✕ CALCULATE THE VALUE OF HUMIDITY CAN BE ADD BY 5

```
data['humidity'] = data['humidity'].apply(lambda x:x+5)
```

```
data.head(2)
```




	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex	sunrise
0	Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	85.2	...	18.3	8	
1	Malaysia	2023-07-02	32.0	26.9	29.4	37.9	30.4	34.1	24.3	80.1	...	19.6	7	

2 rows × 33 columns

✓ FIND THE RECORDS OF ICON IS RAIN OR SEVERERISK IS 30 AND HUMIDITY IS GREATER THAN 80

```
data[((data['icon'] == 'rain') | (data['severerisk'] == 30)) & (data['humidity'] > 80)]
```




	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex
0	Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	85.2	...	18.3	8
1	Malaysia	2023-07-02	32.0	26.9	29.4	37.9	30.4	34.1	24.3	80.1	...	19.6	7
4	Malaysia	2023-07-05	32.7	23.5	26.9	39.3	23.5	29.3	24.1	91.0	...	21.5	8
5	Malaysia	2023-07-06	32.8	24.1	26.6	40.3	24.1	28.4	23.8	90.7	...	17.5	8
6	Malaysia	2023-07-07	31.9	24.8	27.2	38.4	24.8	29.2	24.0	88.5	...	21.3	8
...
349	Malaysia	2024-06-14	31.7	27.1	28.8	38.8	30.8	34.6	25.7	88.6	...	16.2	8
350	Malaysia	2024-06-15	33.0	25.1	28.6	40.3	25.1	32.4	25.0	87.0	...	18.5	8
351	Malaysia	2024-06-16	30.0	26.1	27.4	35.1	26.1	30.9	25.0	91.9	...	8.2	6
352	Malaysia	2024-06-17	32.4	25.0	26.5	38.4	25.0	27.9	23.9	91.6	...	13.6	7
353	Malaysia	2024-06-18	32.7	23.9	26.8	37.9	23.9	28.3	22.7	84.3	...	24.2	9

264 rows × 33 columns

▼ FIND THE RECORD OF SOLARENERGY IS LESS THAN 20

```
data[(data['solarenergy'] < 20)]
```




	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex
0	Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	85.2	...	18.3	8
1	Malaysia	2023-07-02	32.0	26.9	29.4	37.9	30.4	34.1	24.3	80.1	...	19.6	7
2	Malaysia	2023-07-03	32.6	27.6	29.8	40.7	31.7	35.5	24.8	80.4	...	14.8	7
3	Malaysia	2023-07-04	33.7	25.8	28.6	41.1	25.8	32.7	24.8	86.1	...	18.8	8
5	Malaysia	2023-07-06	32.8	24.1	26.6	40.3	24.1	28.4	23.8	90.7	...	17.5	8
...
347	Malaysia	2024-06-12	32.9	26.0	28.5	39.4	26.0	31.7	23.8	81.9	...	12.0	5
349	Malaysia	2024-06-14	31.7	27.1	28.8	38.8	30.8	34.6	25.7	88.6	...	16.2	8
350	Malaysia	2024-06-15	33.0	25.1	28.6	40.3	25.1	32.4	25.0	87.0	...	18.5	8
351	Malaysia	2024-06-16	30.0	26.1	27.4	35.1	26.1	30.9	25.0	91.9	...	8.2	6
352	Malaysia	2024-06-17	32.4	25.0	26.5	38.4	25.0	27.9	23.9	91.6	...	13.6	7

137 rows × 33 columns

✓ FIND THE STANDARD DEVIATION OF SEALEVELPRESSURE

```
data.sealevelpressure.std()
```



1.3740451055134235

✓ FIND THE STANDARD DEVIATION OF SOLARRADIATION

```
data.solarrradiation.std()
```

↗ 59.625371873986815

```
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
data.head(2)
```

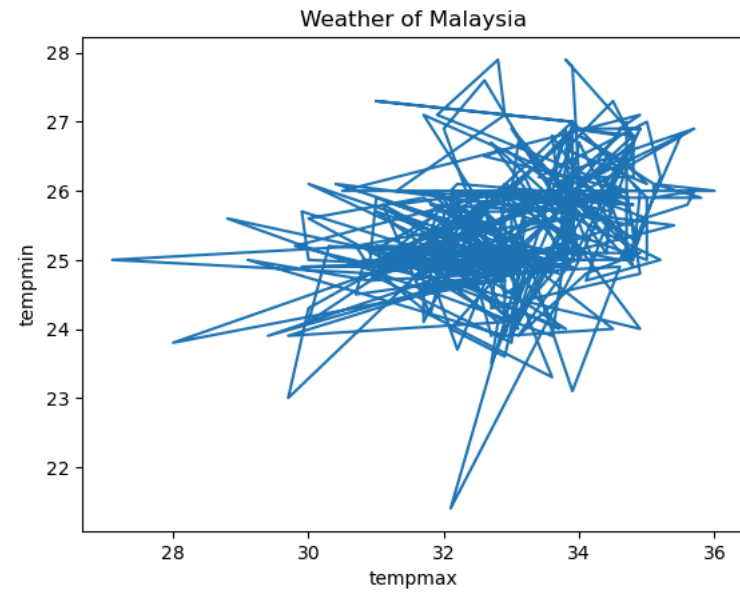
↗

	name	datetime	tempmax	tempmin	temp	feelslikemax	feelslikemin	feelslike	dew	humidity	...	solarenergy	uvindex	so
0	Malaysia	2023-07-01	32.8	24.7	28.4	40.4	24.7	32.2	24.4	85.2	...	18.3	8	
1	Malaysia	2023-07-02	32.0	26.9	29.4	37.9	30.4	34.1	24.3	80.1	...	19.6	7	

2 rows × 33 columns

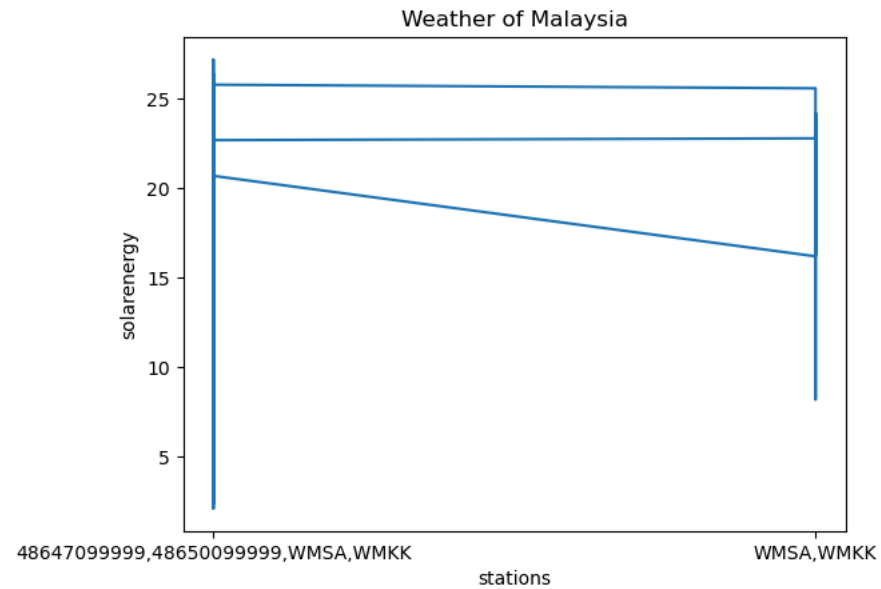
✓ PLOT THE VALUES ARE TEMPMAX AND TEMPMIN IN WEATHER DATASET

```
plt.plot(data['tempmax'], data['tempmin'])
plt.xlabel('tempmax')
plt.ylabel('tempmin')
plt.title('Weather of Malaysia')
plt.show()
```

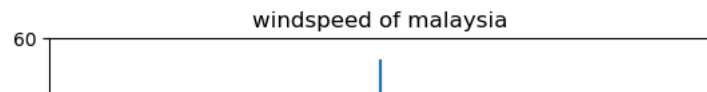
✓ PLOT THE VALUES ARE STATIONS AND SOLARENERGY IN THE WEATHER DATASET

```
plt.plot(data['stations'], data['solarenergy'])  
plt.xlabel('stations')  
plt.ylabel('solarenergy')  
plt.title('Weather of Malaysia')  
plt.show()
```



✓ PLOT THE VALUES ARE NAME AND WINDSPEED IN THE DATASET

```
plt.plot(data['name'], data['windspeed'])
plt.xlabel('name')
plt.ylabel('windspeed')
plt.title('windspeed of malaysia')
plt.show()
```



PLOT THE VALUES OF STATION AND SEALEVELPRESSURE IN THE WEATHER DATASET IN BARPLOT

```
import seaborn as sns
import numpy as np

sns.barplot(x = 'stations', y = 'sealevelpressure', data=data)
plt.xlabel('stations')
plt.ylabel('sealevelpressure')
plt.title('weather of stations')
plt.show()
```

