

The output of the code is:

	date	month	year	MinTemp	MaxTemp	Rainfall	Evaporation	Sunshine \
0	1	1	2023	8.0	24.3	0.0	3.4	6.3
1	2	1	2023	14.0	26.9	3.6	4.4	9.7
2	3	1	2023	13.7	23.4	3.6	5.8	3.3
3	4	1	2023	13.3	15.5	39.8	7.2	9.1
4	5	1	2023	7.6	16.1	2.8	5.6	10.6

	WindGustDir	WindGustSpeed	...	Humidity3pm	Pressure9am	Pressure3pm \
0	NW	30.0	...	29	1019.7	1015.0
1	ENE	39.0	...	36	1012.4	1008.4
2	NW	85.0	...	69	1009.5	1007.2
3	NW	54.0	...	56	1005.5	1007.0
4	SSE	50.0	...	49	1018.3	1018.5

	Cloud9am	Cloud3pm	Temp9am	Temp3pm	RainToday	RISK_MM	RainTomorrow
0	7	7	14.4	23.6	No	3.6	Yes
1	5	3	17.5	25.7	Yes	3.6	Yes
2	8	7	15.4	20.2	Yes	39.8	Yes
3	2	7	13.5	14.1	Yes	2.8	Yes
4	7	7	11.1	15.4	Yes	0.0	No

[5 rows x 25 columns]

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 366 entries, 0 to 365

Data columns (total 25 columns):

#	Column	Non-Null Count	Dtype
0	date	366 non-null	int64
1	month	366 non-null	int64
2	year	366 non-null	int64
3	MinTemp	366 non-null	float64
4	MaxTemp	366 non-null	float64
5	Rainfall	366 non-null	float64
6	Evaporation	366 non-null	float64
7	Sunshine	363 non-null	float64
8	WindGustDir	363 non-null	object
9	WindGustSpeed	364 non-null	float64
10	WindDir9am	335 non-null	object
11	WindDir3pm	365 non-null	object
12	WindSpeed9am	359 non-null	float64
13	WindSpeed3pm	366 non-null	int64
14	Humidity9am	366 non-null	int64
15	Humidity3pm	366 non-null	int64
16	Pressure9am	366 non-null	float64
17	Pressure3pm	366 non-null	float64
18	Cloud9am	366 non-null	int64
19	Cloud3pm	366 non-null	int64
20	Temp9am	366 non-null	float64
21	Temp3pm	366 non-null	float64
22	RainToday	366 non-null	object
23	RISK_MM	366 non-null	float64
24	RainTomorrow	366 non-null	object

dtypes: float64(12), int64(8), object(5)  
memory usage: 71.6+ KB  
None

	date	month	year	MinTemp	MaxTemp	Rainfall \
count	366.000000	366.000000	366.0	366.000000	366.000000	366.000000

```

mean 15.756831 6.519126 2023.0 7.265574 20.550273 1.428415
std 8.823592 3.460686 0.0 6.025800 6.690516 4.225800
min 1.000000 1.000000 2023.0 -5.300000 7.600000 0.000000
25% 8.000000 4.000000 2023.0 2.300000 15.025000 0.000000
50% 16.000000 7.000000 2023.0 7.450000 19.650000 0.000000
75% 23.000000 9.750000 2023.0 12.500000 25.500000 0.200000
max 31.000000 12.000000 2023.0 20.900000 35.800000 39.800000

```

```

Evaporation Sunshine WindGustSpeed WindSpeed9am WindSpeed3pm \
count 366.000000 363.000000 364.000000 359.000000 366.000000
mean 4.521858 7.909366 39.840659 9.651811 17.986339
std 2.669383 3.481517 13.059807 7.951929 8.856997
min 0.200000 0.000000 13.000000 0.000000 0.000000
25% 2.200000 5.950000 31.000000 6.000000 11.000000
50% 4.200000 8.600000 39.000000 7.000000 17.000000
75% 6.400000 10.500000 46.000000 13.000000 24.000000
max 13.800000 13.600000 98.000000 41.000000 52.000000

```

```

Humidity9am Humidity3pm Pressure9am Pressure3pm Cloud9am \
count 366.000000 366.000000 366.000000 366.000000 366.000000
mean 72.035519 44.519126 1019.709016 1016.810383 3.890710
std 13.137058 16.850947 6.686212 6.469422 2.956131
min 36.000000 13.000000 996.500000 996.800000 0.000000
25% 64.000000 32.250000 1015.350000 1012.800000 1.000000
50% 72.000000 43.000000 1020.150000 1017.400000 3.500000
75% 81.000000 55.000000 1024.475000 1021.475000 7.000000
max 99.000000 96.000000 1035.700000 1033.200000 8.000000

```

```

Cloud3pm Temp9am Temp3pm RISK_MM
count 366.000000 366.000000 366.000000 366.000000
mean 4.024590 12.358470 19.230874 1.428415
std 2.666268 5.630832 6.640346 4.225800
min 0.000000 0.100000 5.100000 0.000000
25% 1.000000 7.625000 14.150000 0.000000
50% 4.000000 12.550000 18.550000 0.000000
75% 7.000000 17.000000 24.000000 0.200000
max 8.000000 24.700000 34.500000 39.800000

```

C:\Users\M.Geethasree\anaconda3\Lib\site-packages\seaborn\\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

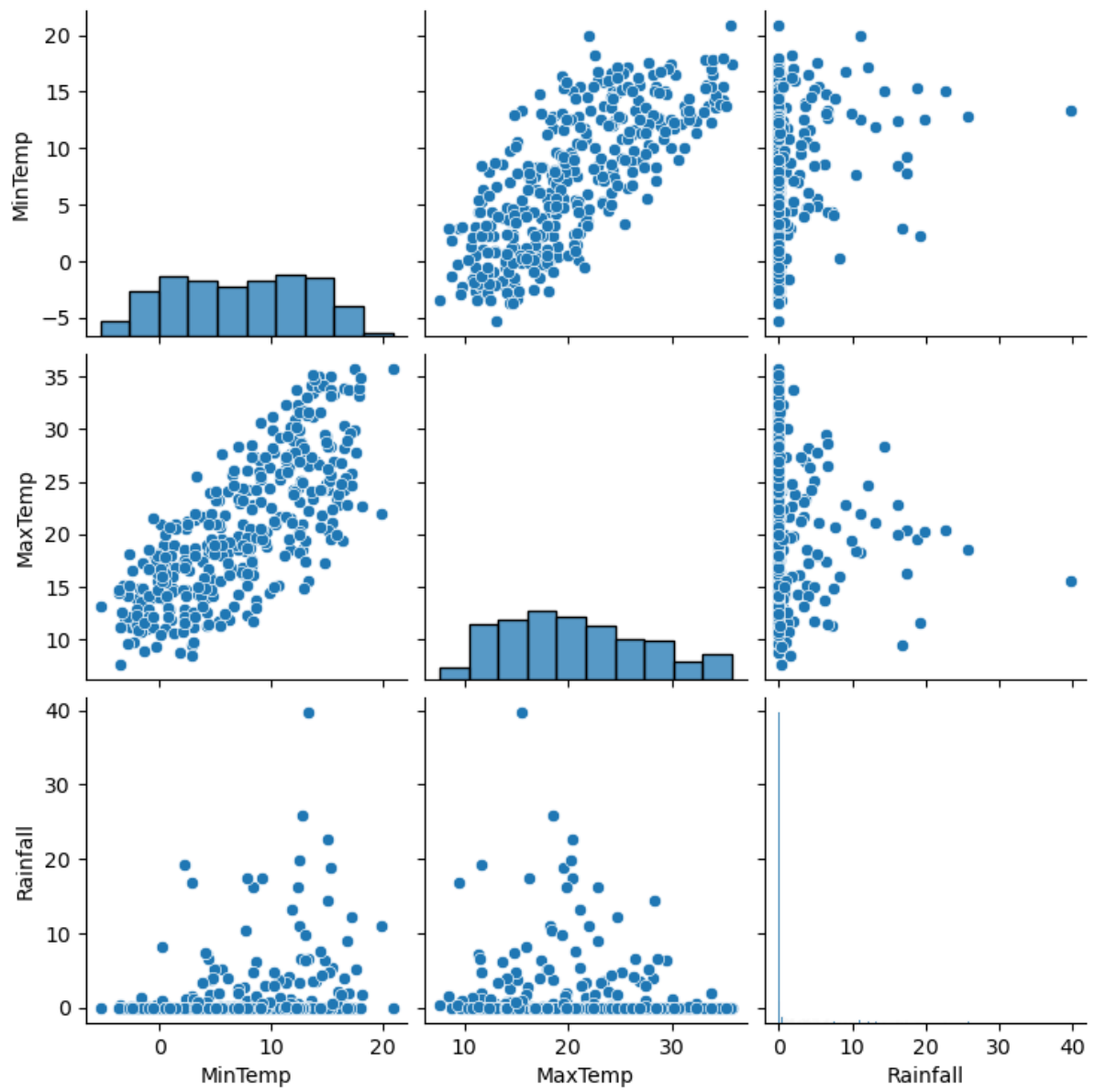
```
with pd.option_context('mode.use_inf_as_na', True):
```

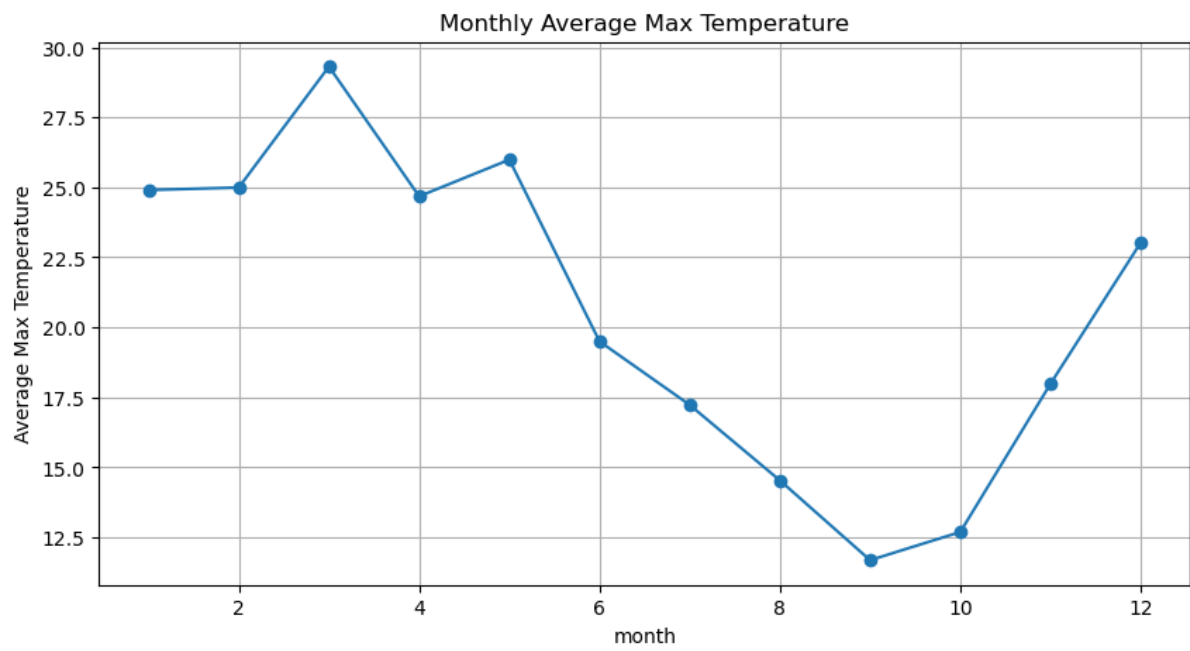
C:\Users\M.Geethasree\anaconda3\Lib\site-packages\seaborn\\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

```
with pd.option_context('mode.use_inf_as_na', True):
```

C:\Users\M.Geethasree\anaconda3\Lib\site-packages\seaborn\\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

```
with pd.option_context('mode.use_inf_as_na', True):
```





Mean Squared Error for Rainfall Prediction: 37.0768456005826

Highest rainfall month: 3, Lowest rainfall month: 9

[ ]: