```
In [1]: greeting = "Assalam-o-Alaikum!"
print(greeting)
```

Assalam-o-Alaikum!

## Import Libaries

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

```
Import Dataset
 In [5]: df = pd.read csv("1. Weather Data.csv")
            df.head()
                 Date/Time Temp_C Dew Point Temp_C Rel Hum_% Wind Speed_km/h Visibility_km Press_kPa
                                                                                                                         Weather
            0 1/1/2012 0:00
                                -1.8
                                                   -3.9
                                                                 86
                                                                                    4
                                                                                                8.0
                                                                                                        101.24
                                                                                                                              Fog
            1 1/1/2012 1:00
                                -1.8
                                                   -3.7
                                                                                                8.0
                                                                                                        101.24
                                                                                                                              Fog
            2 1/1/2012 2:00
                                                                 89
                                                                                    7
                                                                                                4.0
                                -1.8
                                                   -3.4
                                                                                                        101.26 Freezing Drizzle.Fog
            3 1/1/2012 3:00
                                -1.5
                                                   -3.2
                                                                 88
                                                                                   6
                                                                                                4.0
                                                                                                        101.27 Freezing Drizzle,Fog
            4 1/1/2012 4:00
                                -1.5
                                                   -3.3
                                                                                    7
                                                                                                4.8
                                                                                                        101.23
                                                                 88
 In [6]: df.info()
            <class 'pandas.core.frame.DataFrame'>
            RangeIndex: 8784 entries, 0 to 8783
            Data columns (total 8 columns):
             #
                 Column
                                        Non-Null Count Dtype
            - - -
                                        8784 non-null
                 Date/Time
                                                           object
                                        8784 non-null
                  Temp C
             1
                                                            float64
             2
                 Dew Point Temp_C
                                        8784 non-null
                                                            float64
                                        8784 non-null
                                                           int64
                  Rel Hum %
                 Wind Speed km/h
                                        8784 non-null
                                                           int64
                                        8784 non-null
             5
                 Visibility_km
                                                            float64
             6
                 Press_kPa
                                        8784 non-null
                                                           float64
                 Weather
                                        8784 non-null
                                                           object
            dtypes: float64(4), int64(2), object(2)
            memory usage: 549.1+ KB
In [10]: df.shape
            (8784, 8)
In [11]: df.index
            RangeIndex(start=0, stop=8784, step=1)
Out[11]:
In [12]: df.columns
            Index(['Date/Time', 'Temp_C', 'Dew Point Temp_C', 'Rel Hum_%',
                     'Wind Speed_km/h', 'Visibility_km', 'Press_kPa', 'Weather'],
                   dtype='object')
In [13]: df["Weather"].unique()
'Haze', 'Rain, Fog', 'Drizzle, Fog', 'Drizzle',
                    'Freezing Drizzle, Haze', 'Freezing Rain, Haze', 'Snow, Haze', 'Snow, Fog', 'Snow, Ice Pellets', 'Rain, Haze', 'Thunderstorms, Rain', 'Thunderstorms, Rain Showers', 'Thunderstorms, Heavy Rain Showers',
                    'Thunderstorms, Rain Showers, Fog', 'Thunderstorms',
                    'Thunderstorms, Rain, Fog',
                    'Thunderstorms, Moderate Rain Showers, Fog', 'Rain Showers, Fog', 'Rain Showers, Snow Showers', 'Snow Pellets', 'Rain, Snow, Fog',
                    'Moderate Rain, Fog', 'Freezing Rain, Ice Pellets, Fog',
                    'Drizzle,Ice Pellets,Fog', 'Drizzle,Snow', 'Rain,Ice Pellets', 'Drizzle,Snow,Fog', 'Rain,Snow Grains', 'Rain,Snow,Ice Pellets', 'Snow Showers,Fog', 'Moderate Snow,Blowing Snow'], dtype=object)
In [15]: df.nunique()
```

```
Out[15]: Date/Time 8784
    Temp_C 533
    Dew Point Temp_C 489
    Rel Hum_% 83
    Wind Speed_km/h 34
    Visibility_km 24
    Press_kPa 518
    Weather 50
    dtype: int64
```

Find Unique Values of Column "Wind Speed\_km/h".

```
In [19]: df["Wind Speed_km/h"].nunique()
```

Out[19]: 34

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