```python
In [2]: import pandas as pd
        import numpy as np
```

```python
In [3]: df= pd.read_csv('./air.csv')
```

```python
In [4]: df
```

Out[4]:

	month	year	Ozone	Solar	Wind	Temp
0	first	2023	41	190	7.4	67
1	second	2024	36	118	8.0	72
2	second	2024	12	149	12.6	74
3	first	2024	18	313	11.5	62
4	third	2024	22	297	14.3	56
5	fourth	2023	28	103	14.9	66
6	fourth	2024	23	299	8.6	65
7	first	2023	19	99	13.8	59
8	first	2023	8	19	20.1	61

```python
In [5]: df1=df.drop(columns=["month","year"])
```

```python
In [6]: df1.mean()
```

```
Out[6]: Ozone     23.000000
        Solar    176.333333
        Wind      12.355556
        Temp      64.666667
        dtype: float64
```

```python
In [7]: df1.min()
```

```
Out[7]: Ozone     8.0
        Solar    19.0
        Wind      7.4
        Temp     56.0
        dtype: float64
```

```python
In [8]: df1.median()
```

```
Out[8]: Ozone     22.0
        Solar    149.0
        Wind      12.6
        Temp     65.0
        dtype: float64
```

```python
In [9]: df1.std()
```

```
Out[9]:   Ozone      10.641898
          Solar     105.317377
          Wind        4.042620
          Temp        5.873670
          dtype: float64
```

```
In [10]: df1.max()
```

```
Out[10]:  Ozone      41.0
          Solar     313.0
          Wind       20.1
          Temp       74.0
          dtype: float64
```

```
In [11]: np.std(df['Wind'])
```

```
Out[11]: 3.811418840831708
```

```
In [12]: gr1 = df.groupby('year')
```

```
In [13]: ye = gr1.get_group(2023)
```

```
In [14]: ye1=ye.drop(columns=["month","year"])
```

```
In [15]: ye1.min()
```

```
Out[15]:  Ozone      8.0
          Solar     19.0
          Wind       7.4
          Temp      59.0
          dtype: float64
```

```
In [16]: ye1.max()
```

```
Out[16]:  Ozone      41.0
          Solar     190.0
          Wind       20.1
          Temp      67.0
          dtype: float64
```

```
In [17]: gr2 = df.groupby('month')
```

```
In [18]: gr2.groups
```

```
Out[18]: {'first': [0, 3, 7, 8], 'fourth': [5, 6], 'second': [1, 2], 'third': [4]}
```

```
In [19]: y1=gr2.get_group('first')
```

```
In [21]: y1
```

Out[21]:

	month	year	Ozone	Solar	Wind	Temp
0	first	2023	41	190	7.4	67
3	first	2024	18	313	11.5	62
7	first	2023	19	99	13.8	59
8	first	2023	8	19	20.1	61

In [23]:
```python
import seaborn as sns
```

In [32]:
```python
df = sns.load_dataset('iris')
```

In [33]:
```python
df
```

Out[33]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...	...	...	...	...	...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

150 rows × 5 columns

In [29]:
```python
df.describe()
```

Out[29]:

	sepal_length	sepal_width	petal_length	petal_width
count	150.000000	150.000000	150.000000	150.000000
mean	5.843333	3.057333	3.758000	1.199333
std	0.828066	0.435866	1.765298	0.762238
min	4.300000	2.000000	1.000000	0.100000
25%	5.100000	2.800000	1.600000	0.300000
50%	5.800000	3.000000	4.350000	1.300000
75%	6.400000	3.300000	5.100000	1.800000
max	7.900000	4.400000	6.900000	2.500000

In [30]:
```python
gr = df.groupby('species')
```

In [31]:
```python
se = gr.get_group('setosa')
ve = gr.get_group('versicolor')
vi = gr.get_group('virginica')
```

In [36]:
```python
se.shape
```

Out[36]: (50, 5)

In [37]:
```python
ve.shape
```

Out[37]: (50, 5)

In [38]:
```python
vi.shape
```

Out[38]: (50, 5)

In [39]:
```python
se.describe()
```

Out[39]:

	sepal_length	sepal_width	petal_length	petal_width
count	50.00000	50.000000	50.000000	50.000000
mean	5.00600	3.428000	1.462000	0.246000
std	0.35249	0.379064	0.173664	0.105386
min	4.30000	2.300000	1.000000	0.100000
25%	4.80000	3.200000	1.400000	0.200000
50%	5.00000	3.400000	1.500000	0.200000
75%	5.20000	3.675000	1.575000	0.300000
max	5.80000	4.400000	1.900000	0.600000

In [40]: `ve.describe()`

Out[40]:

	sepal_length	sepal_width	petal_length	petal_width
count	50.000000	50.000000	50.000000	50.000000
mean	5.936000	2.770000	4.260000	1.326000
std	0.516171	0.313798	0.469911	0.197753
min	4.900000	2.000000	3.000000	1.000000
25%	5.600000	2.525000	4.000000	1.200000
50%	5.900000	2.800000	4.350000	1.300000
75%	6.300000	3.000000	4.600000	1.500000
max	7.000000	3.400000	5.100000	1.800000

In [41]: `vi.describe()`

Out[41]:

	sepal_length	sepal_width	petal_length	petal_width
count	50.00000	50.000000	50.000000	50.00000
mean	6.58800	2.974000	5.552000	2.02600
std	0.63588	0.322497	0.551895	0.27465
min	4.90000	2.200000	4.500000	1.40000
25%	6.22500	2.800000	5.100000	1.80000
50%	6.50000	3.000000	5.550000	2.00000
75%	6.90000	3.175000	5.875000	2.30000
max	7.90000	3.800000	6.900000	2.50000

In [ ]: