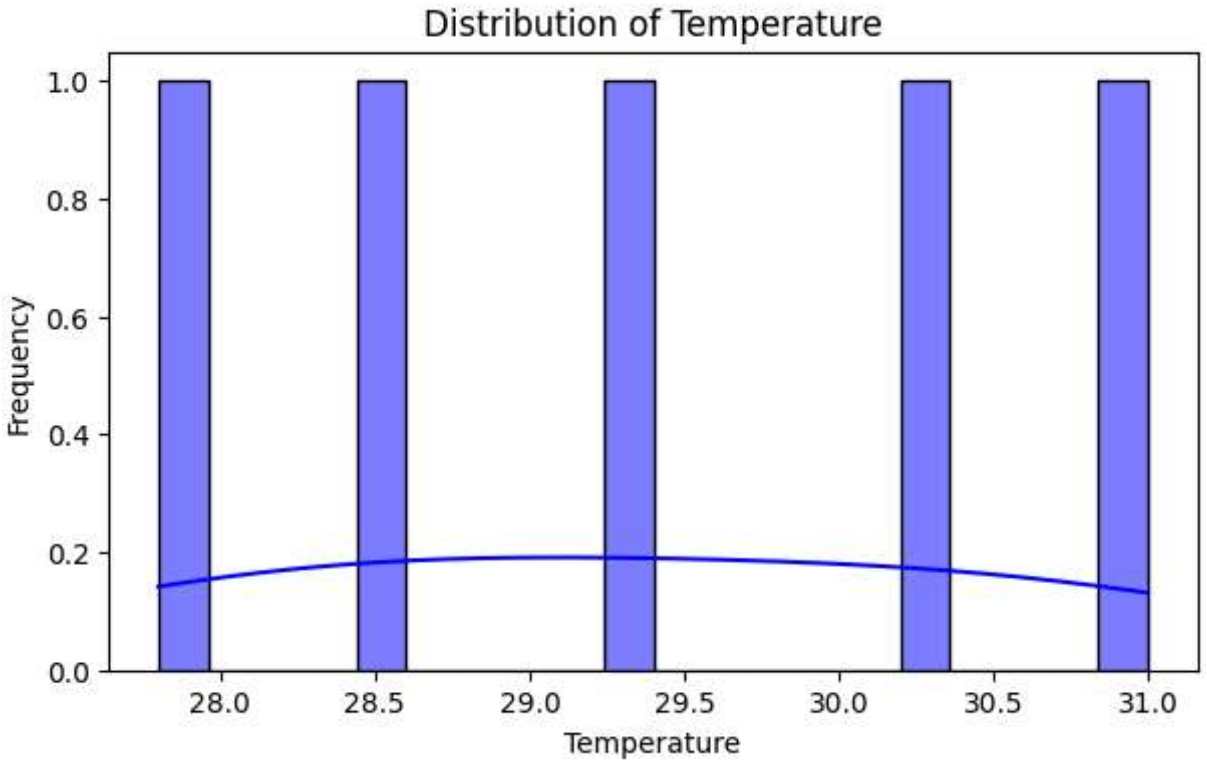
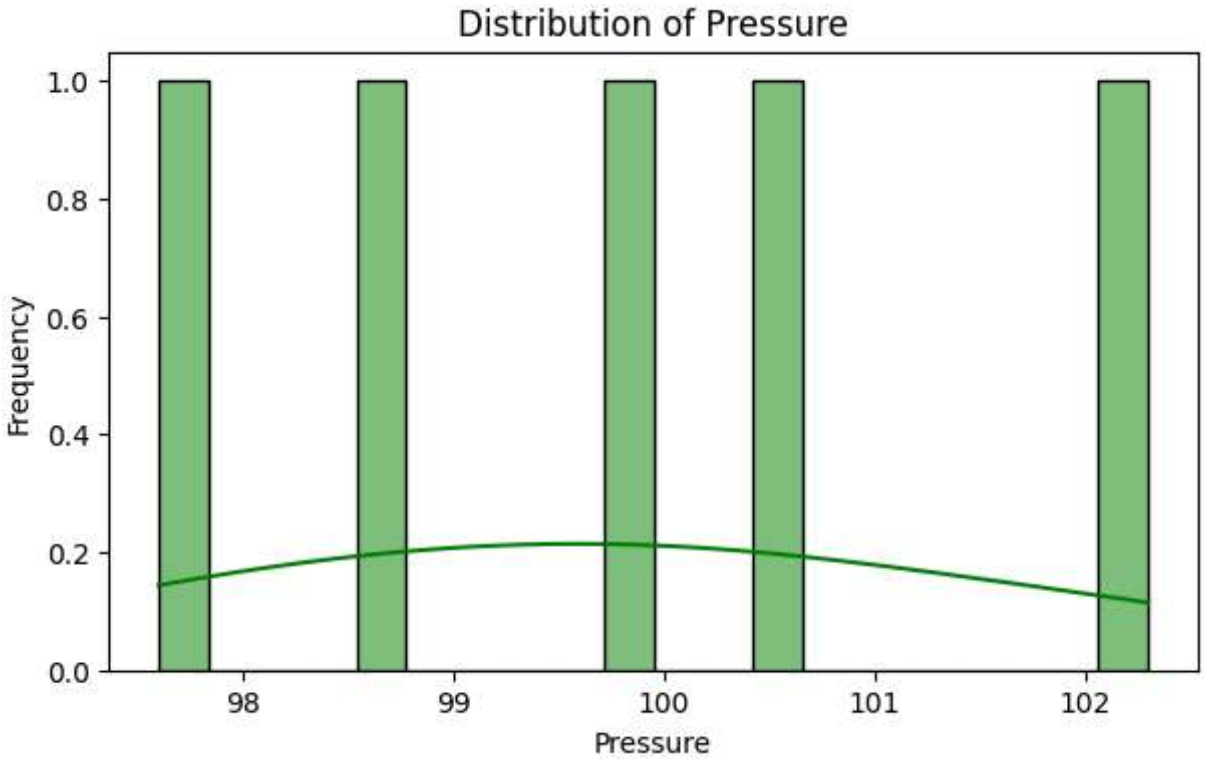
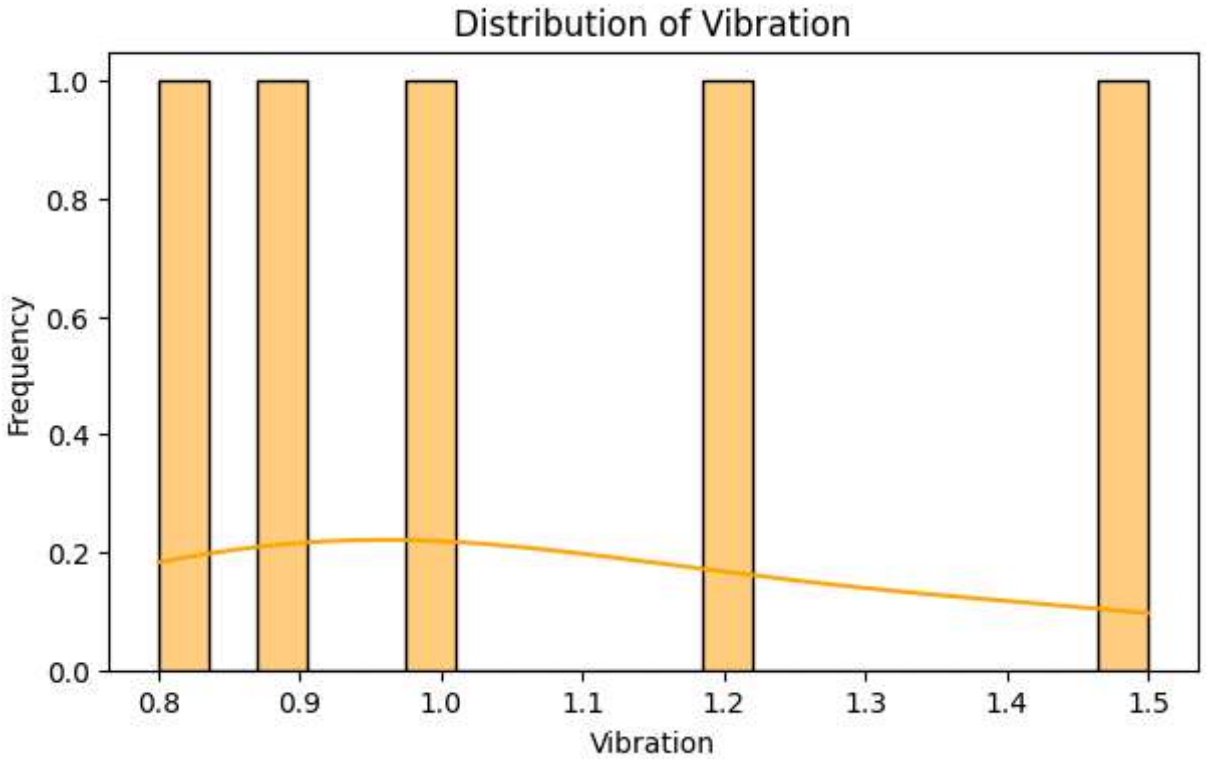
```
First few rows of the DataFrame:
   Equipment ID                 Date  Sensor 1 (Temperature)  \
0             1  2022-01-01 08:00:00                    28.5
1             2  2022-01-01 08:15:00                    30.2
2             3  2022-01-01 08:30:00                    27.8
3             4  2022-01-01 08:45:00                    29.3
4             5  2022-01-01 09:00:00                    31.0

   Sensor 2 (Pressure)  Sensor 3 (Vibration) Maintenance History  Failure
0                102.3                   0.8                 NaN        0
1                 98.7                   1.2       Maintenance 1        0
2                 99.9                   1.0                 NaN        0
3                100.5                   0.9       Maintenance 2        0
4                 97.6                   1.5                 NaN        1

Summary statistics:
       Equipment ID  Sensor 1 (Temperature)  Sensor 2 (Pressure)  \
count      5.000000                5.000000             5.000000
mean       3.000000               29.360000            99.800000
std        1.581139                1.281796             1.788854
min        1.000000               27.800000            97.600000
25%        2.000000               28.500000            98.700000
50%        3.000000               29.300000            99.900000
75%        4.000000               30.200000           100.500000
max        5.000000               31.000000           102.300000

       Sensor 3 (Vibration)   Failure
count              5.000000  5.000000
mean               1.080000  0.200000
std                0.277489  0.447214
min                0.800000  0.000000
25%                0.900000  0.000000
50%                1.000000  0.000000
75%                1.200000  0.000000
max                1.500000  1.000000

Missing values:
Equipment ID             0
Date                     0
Sensor 1 (Temperature)   0
Sensor 2 (Pressure)      0
```

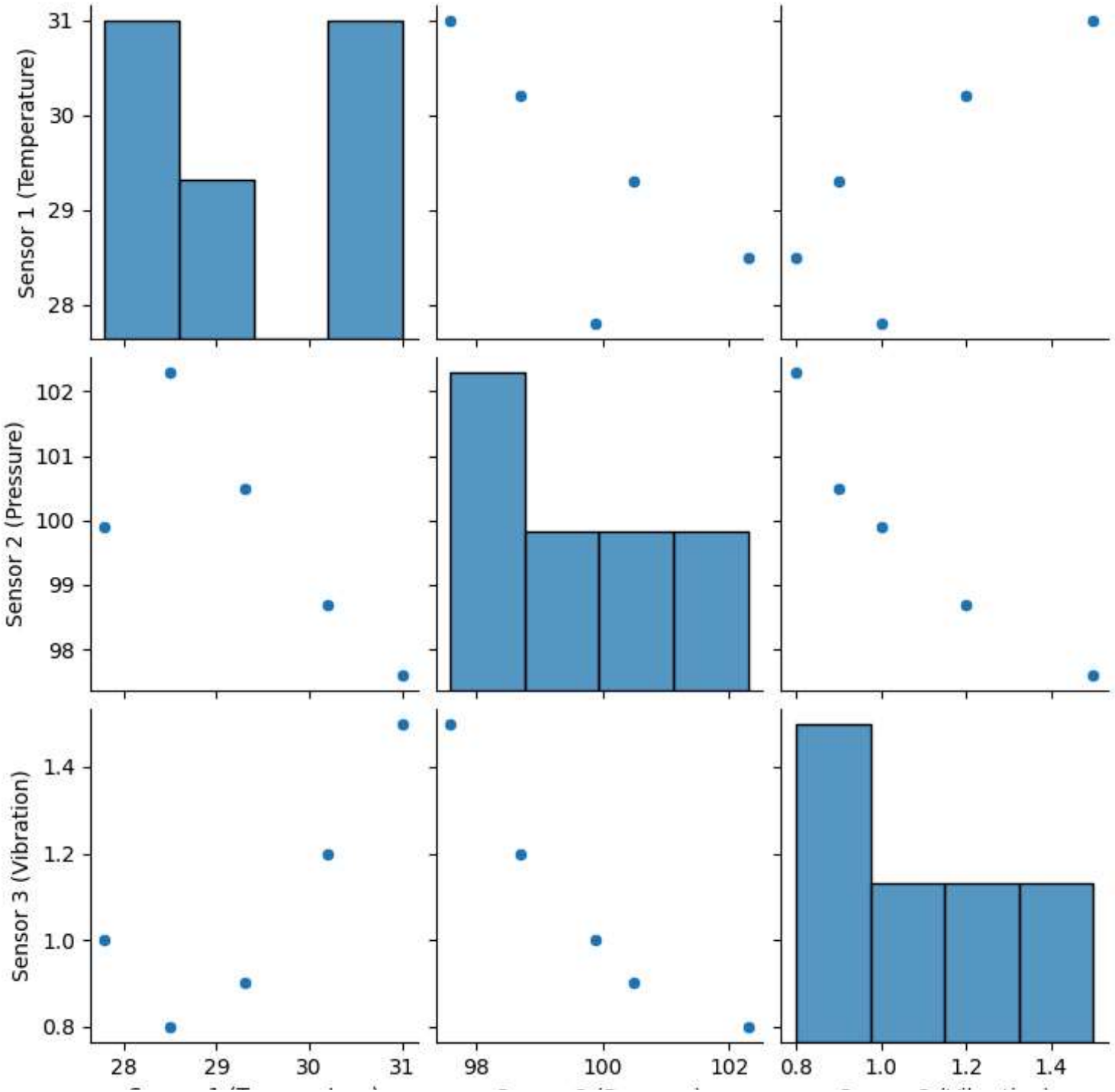
```
Sensor 3 (Vibration)      0
Maintenance History       3
Failure                   0
dtype: int64
```




Distribution of Pressure
Frequency
1.0
0.8
0.6
0.4
0.2
0.0
98
99
100
101
102
Pressure



Pairplot for Sensor readings:


Sensor 1 (Temperature)
Sensor 2 (Pressure)
Sensor 3 (Vibration)
31
30
29
28
102
101
100
99
98
1.4
1.2
1.0
0.8
28
29
30
31
98
100
102
0.8
1.0
1.2
1.4

Sensor 1 (Temperature) Sensor 2 (Pressure) Sensor 3 (Vibration)

Relationship between Maintenance History and Failure: