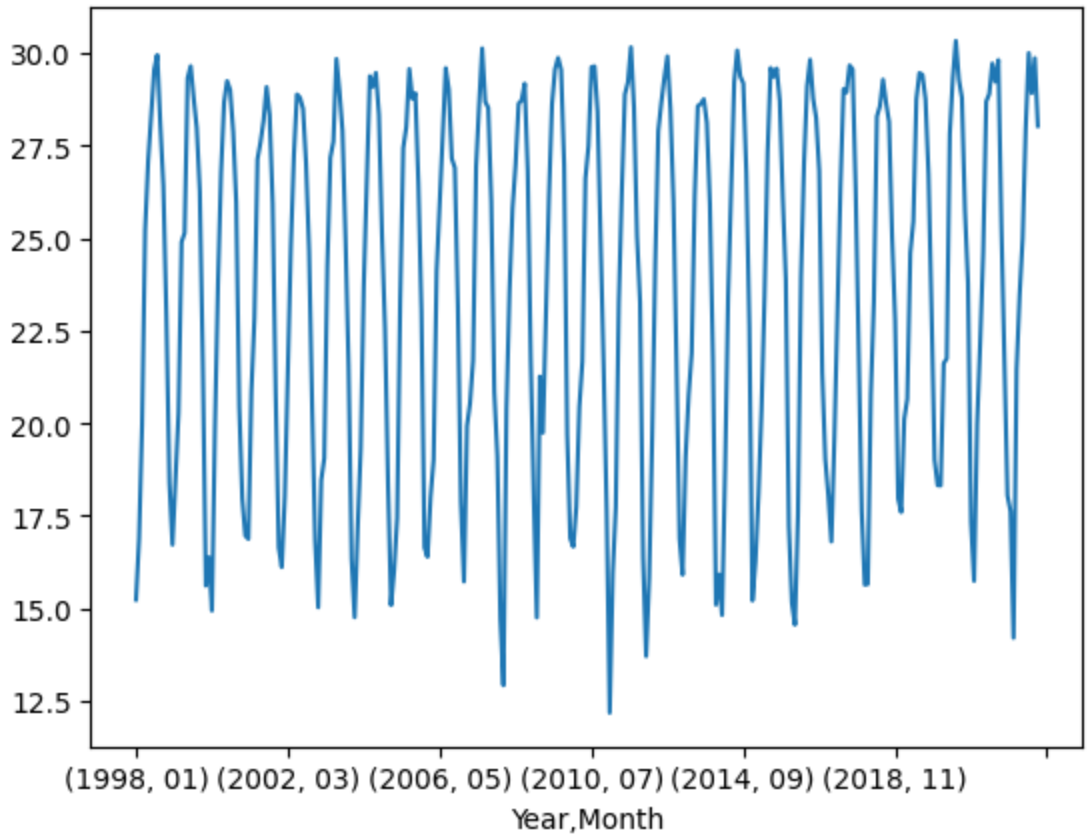
In [1]:
```
import pandas as pd
from matplotlib import pyplot as plt
# Independently designed by Shao Shi
# Data filtering method: remove -9999 values of temperature,
# and the air temperature quality code should be 1 at the same time

raw_data = pd.read_csv("Baoan_Weather_1998_2022.csv", header=0)
TMP = raw_data["TMP"].str.split(',', expand=True).astype(int)
time = raw_data["DATE"].str.split('-', expand=True)
TMP["Month"] = time[1]
TMP["Year"] = time[0]
TMP = TMP.loc[(TMP[0] != +9999) & (TMP[1] == 1)]
ave = TMP.groupby(['Year', 'Month']).mean()[0]/10
ave.plot()
plt.show()
```

```
C:\Users\Almustafa\AppData\Local\Temp\ipykernel_31236\2930547756.py:7: DtypeWarning: Columns (4,8,9,10,11,14,15,24,25,27,29,31,34,37,38,40,41,45,49,50) have mixed types. Specify dtype option on import or set low_memory=False.
  raw_data = pd.read_csv("Baoan_Weather_1998_2022.csv", header=0)
```



In [ ]: