In [2]:
```python
import  pandas as pd
import seaborn as sns
sns.set(color_codes=True)
```

In [3]:
```python
weather = pd.read_csv('https://raw.githubusercontent.com/gmonu/Data-Visualization-using-Python/master/Weather_Data_Visualize/Test.csv')
```

In [4]:
```python
weather.head()
```

Out[4]:

	date_time	is_holiday	air_pollution_index	humidity	wind_speed	wind_direction	visibility_in_miles	dew_point	temperature	rain_p_h	snow_p_h	clouds_all	weather_type	weather_description
0	18-05-2017 00:00	None	73.0	63.0	1.0	27.0	4.0	4.0	285.15	0.0	0.0	90.0	Rain	moderate rain
1	18-05-2017 00:00	None	251.0	63.0	1.0	27.0	4.0	4.0	285.15	0.0	0.0	90.0	Mist	mist
2	18-05-2017 00:00	None	75.0	56.0	1.0	0.0	1.0	1.0	285.15	0.0	0.0	90.0	Drizzle	light intensity drizzle
3	18-05-2017 01:00	None	98.0	56.0	1.0	351.0	2.0	2.0	284.79	0.0	0.0	90.0	Rain	heavy intensity rain
4	18-05-2017 01:00	None	283.0	56.0	1.0	351.0	1.0	1.0	284.79	0.0	0.0	90.0	Mist	mist

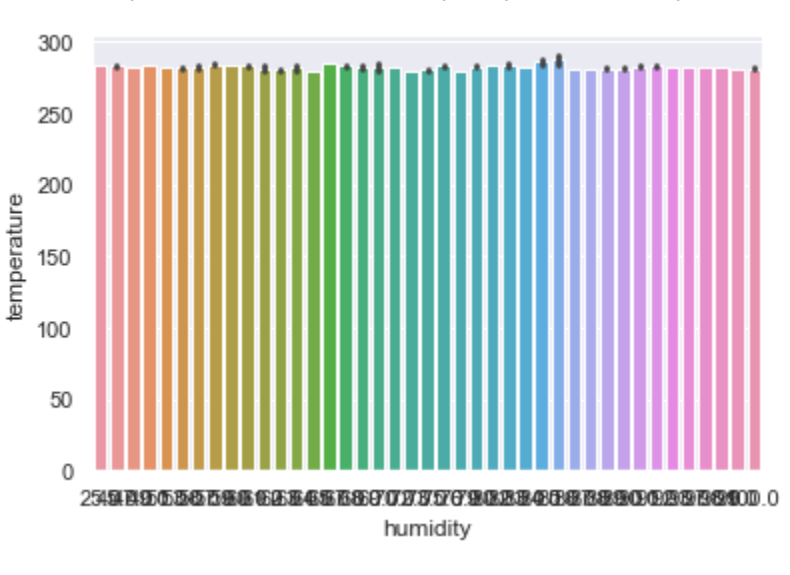
In [5]:
```python
weather.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 14454 entries, 0 to 14453
Data columns (total 14 columns):
 #   Column               Non-Null Count  Dtype  
---  ------               --------------  -----  
 0   date_time            199 non-null    object 
 1   is_holiday           199 non-null    object 
 2   air_pollution_index  199 non-null    float64
 3   humidity             199 non-null    float64
 4   wind_speed           199 non-null    float64
 5   wind_direction       199 non-null    float64
 6   visibility_in_miles  199 non-null    float64
 7   dew_point            199 non-null    float64
 8   temperature          199 non-null    float64
 9   rain_p_h             199 non-null    float64
 10  snow_p_h             199 non-null    float64
 11  clouds_all           199 non-null    float64
 12  weather_type         199 non-null    object 
 13  weather_description  199 non-null    object 
dtypes: float64(10), object(4)
memory usage: 1.5+ MB
```

In [6]:
```python
sns.barplot(weather['humidity'], weather['temperature'])
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

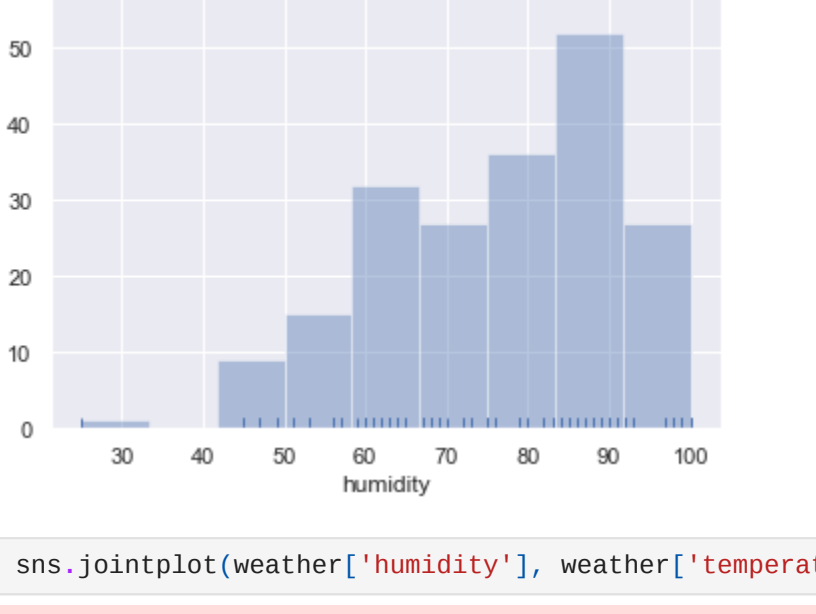
Out[6]: `<AxesSubplot:xlabel='humidity', ylabel='temperature'>`



In [7]:
```python
sns.distplot(weather['humidity'])
```

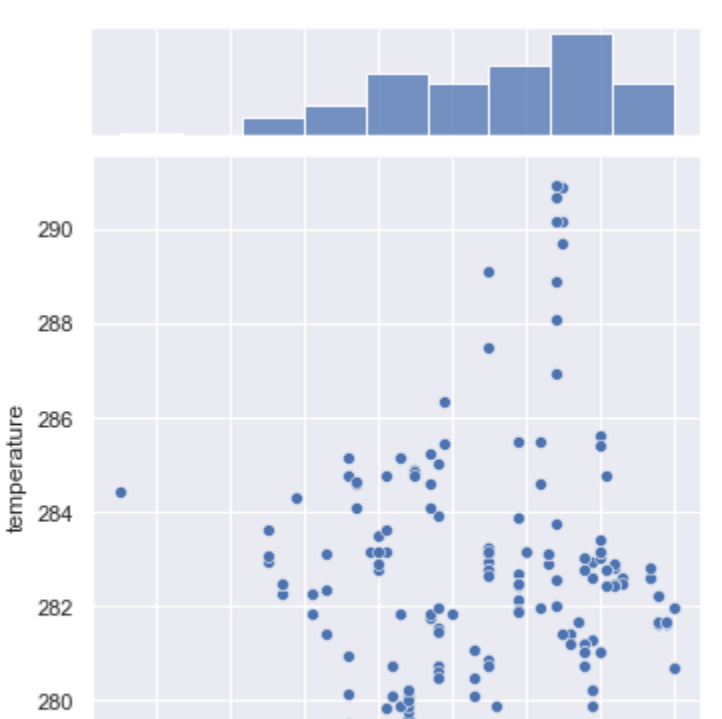
```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt y
our code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```

Out[7]: `<AxesSubplot:xlabel='humidity', ylabel='Density'>`



In [8]:
```python
sns.distplot(weather['humidity'], kde=False, rug=True);
```

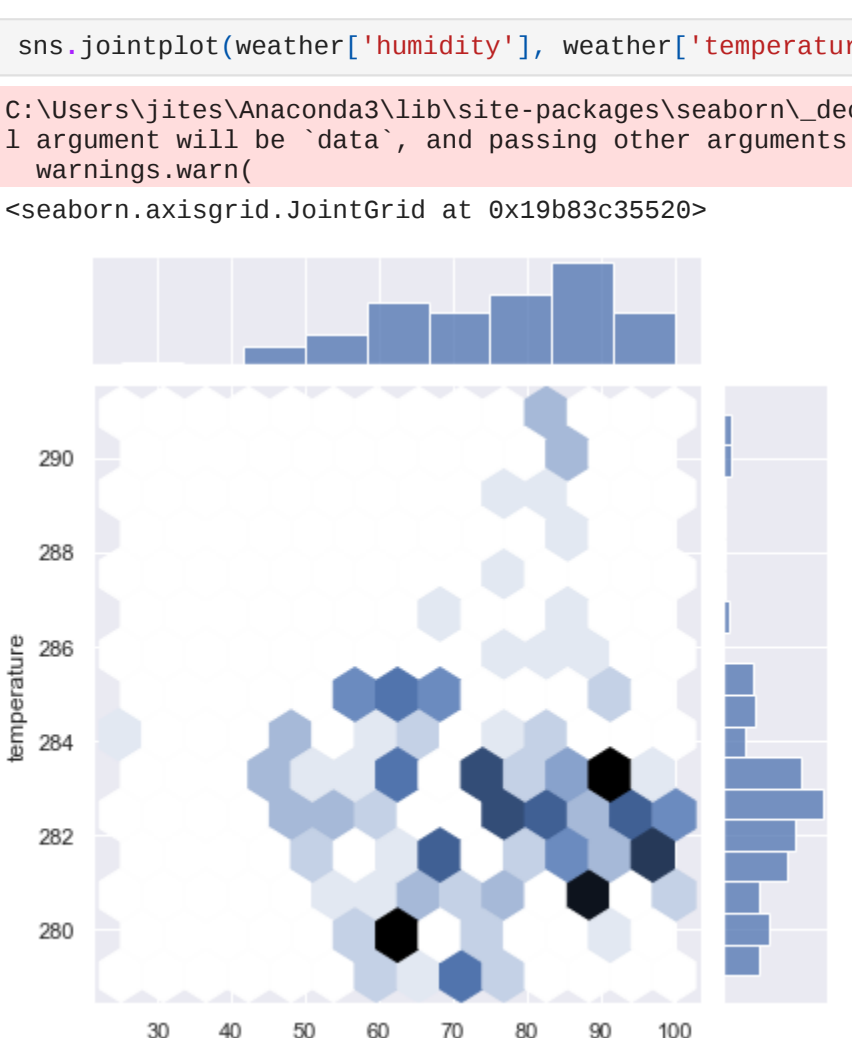
```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt y
our code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\distributions.py:2055: FutureWarning: The `axis` variable is no longer used and will be removed. Instead, assign variables direct
ly to `x` or `y`.
  warnings.warn(msg, FutureWarning)
```



In [9]:
```python
sns.jointplot(weather['humidity'], weather['temperature'])
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

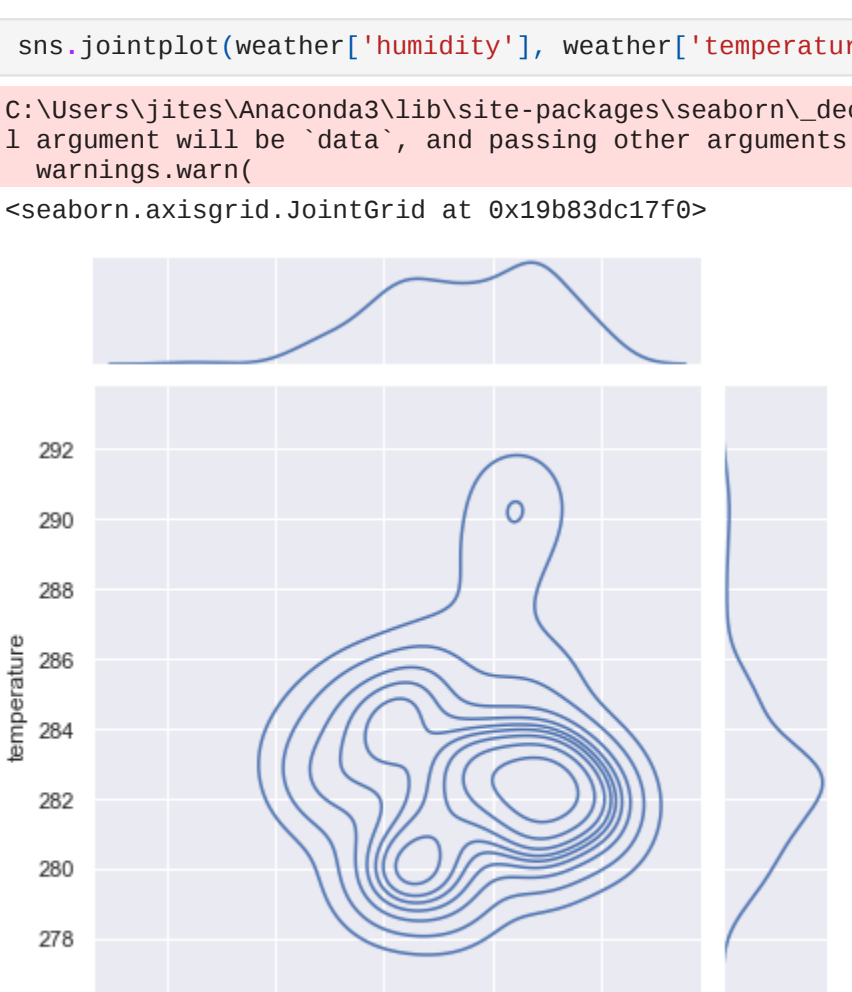
Out[9]: `<seaborn.axisgrid.JointGrid at 0x19b83b05be0>`



In [10]:
```python
sns.jointplot(weather['humidity'], weather['temperature'], kind="hex")
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

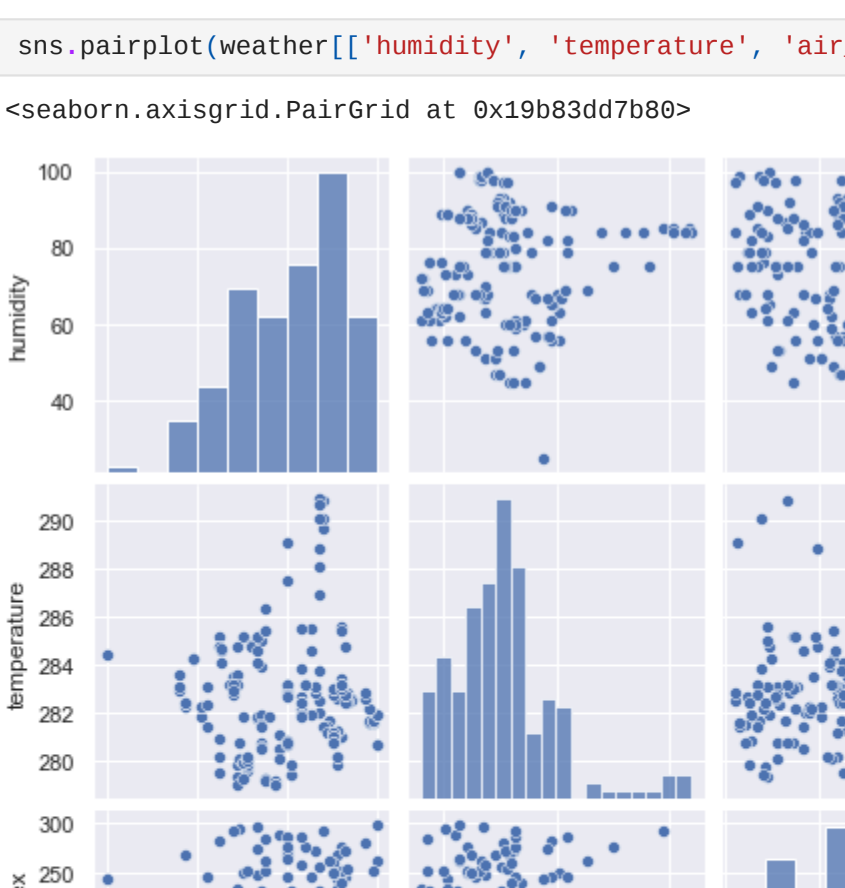
Out[10]: `<seaborn.axisgrid.JointGrid at 0x19b83c35520>`



In [11]:
```python
sns.jointplot(weather['humidity'], weather['temperature'], kind="kde")
```

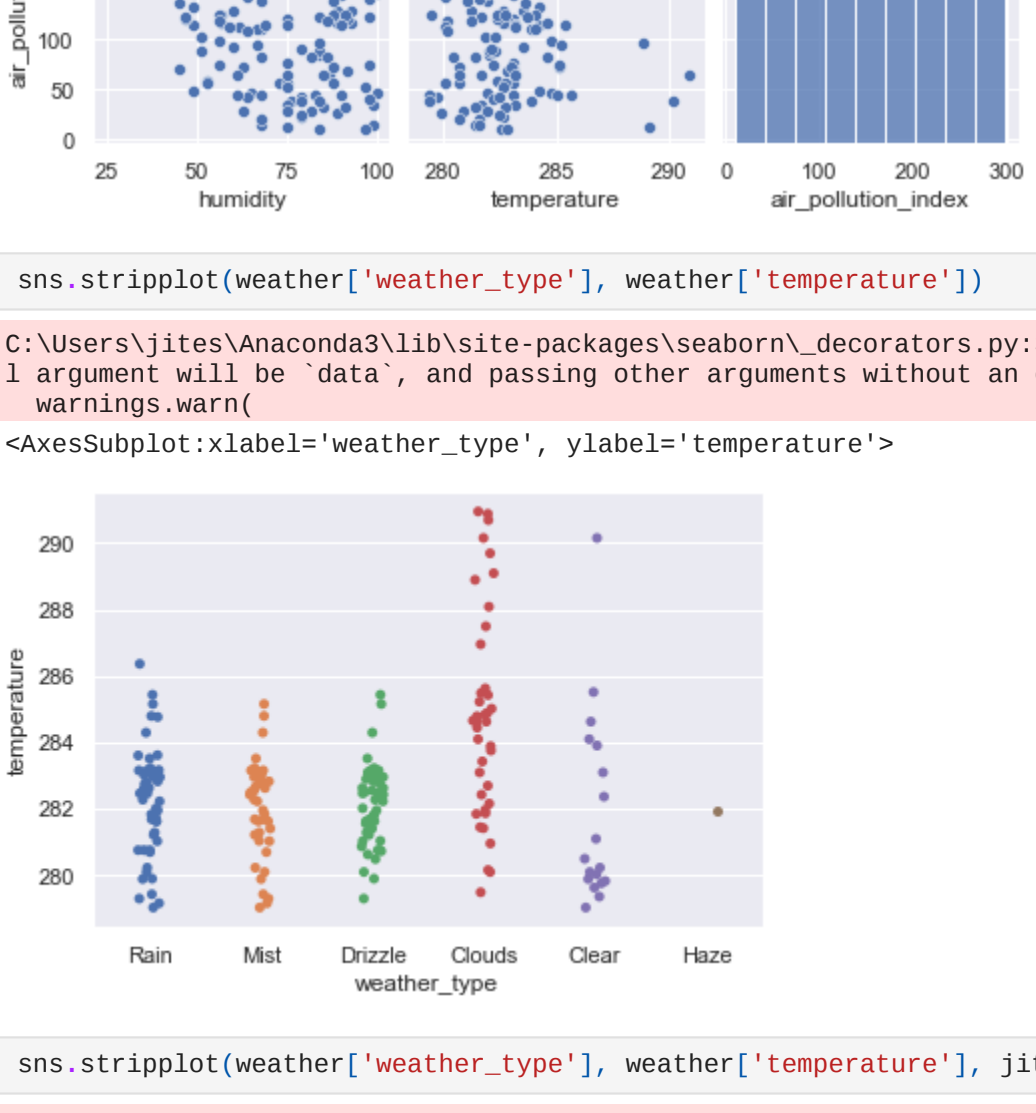
```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

Out[11]: `<seaborn.axisgrid.JointGrid at 0x19b83dc17f0>`



In [12]:
```python
sns.pairplot(weather[['humidity', 'temperature', 'air_pollution_index']])
```

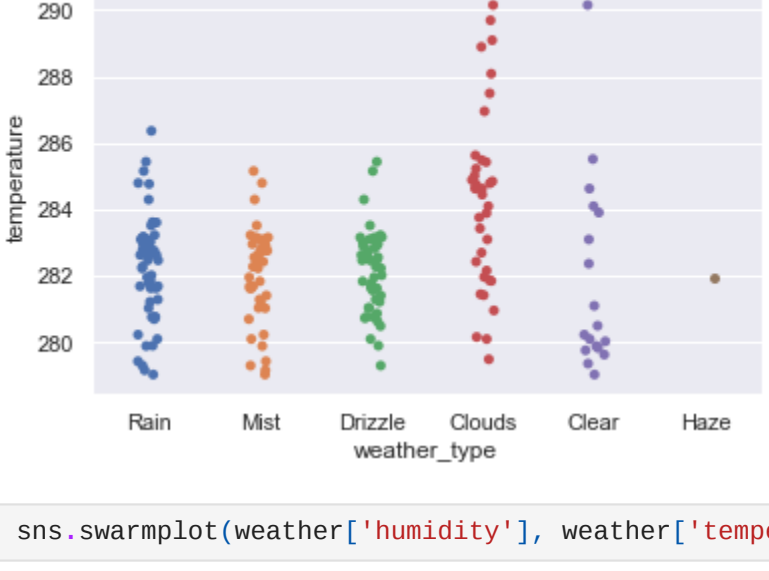
Out[12]: `<seaborn.axisgrid.PairGrid at 0x19b83dd7b80>`



In [13]:
```python
sns.stripplot(weather['weather_type'], weather['temperature'])
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

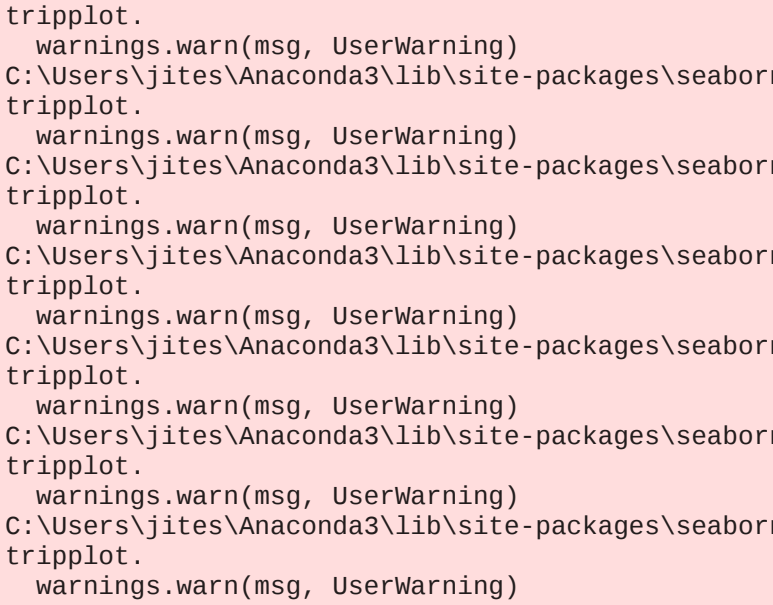
Out[13]: `<AxesSubplot:xlabel='weather_type', ylabel='temperature'>`



In [14]:
```python
sns.stripplot(weather['weather_type'], weather['temperature'], jitter = True)
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

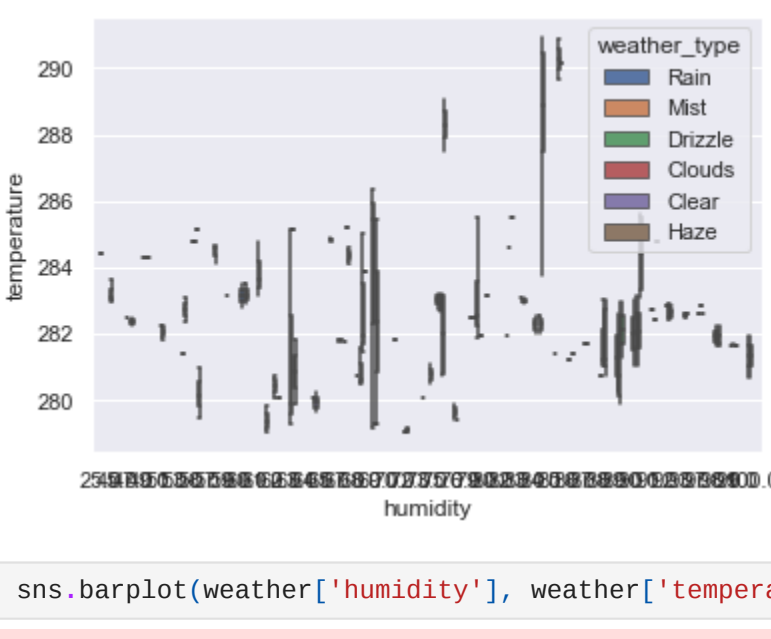
Out[14]: `<AxesSubplot:xlabel='weather_type', ylabel='temperature'>`



In [15]:
```python
sns.swarmplot(weather['humidity'], weather['temperature'])
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 33.3% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 66.7% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 16.7% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 50.0% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 57.1% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 25.0% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 68.8% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 44.4% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 60.0% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 71.4% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\categorical.py:1296: UserWarning: 80.0% of the points cannot be placed; you may want to decrease the size of the markers or use s
tripplot.
  warnings.warn(msg, UserWarning)
```

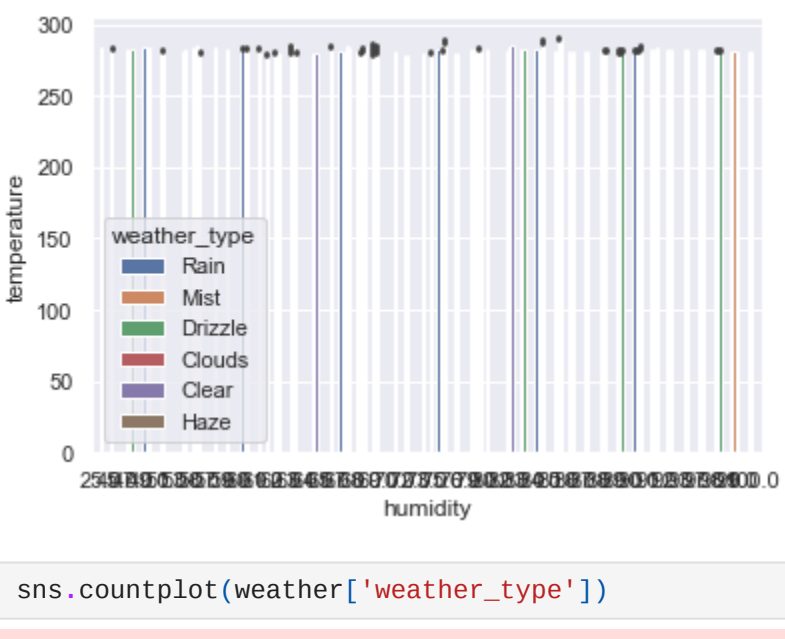
Out[15]: `<AxesSubplot:xlabel='humidity', ylabel='temperature'>`



In [16]:
```python
sns.boxplot(weather['humidity'], weather['temperature'], hue=weather['weather_type'])
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

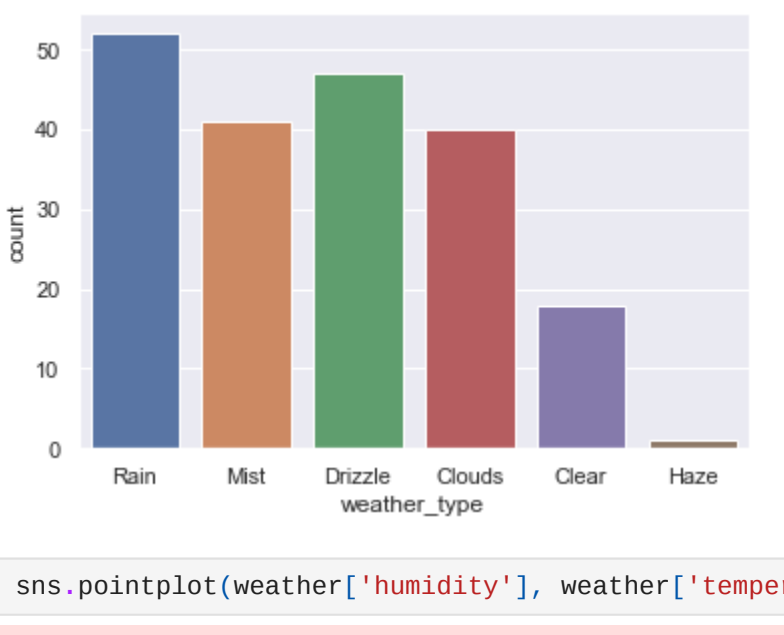
Out[16]: `<AxesSubplot:xlabel='humidity', ylabel='temperature'>`



In [17]:
```python
sns.barplot(weather['humidity'], weather['temperature'], hue=weather['weather_type'])
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

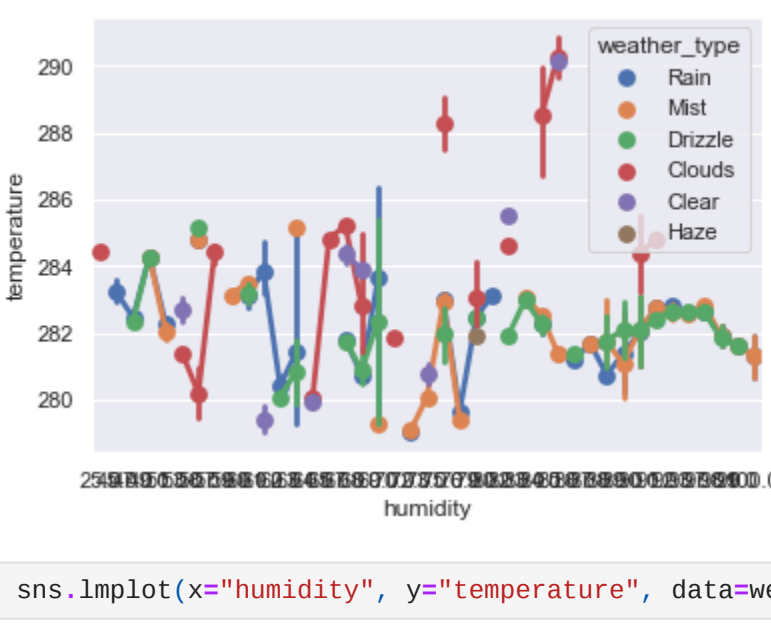
Out[17]: `<AxesSubplot:xlabel='humidity', ylabel='temperature'>`



In [18]:
```python
sns.countplot(weather['weather_type'])
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional a
rgument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

Out[18]: `<AxesSubplot:xlabel='weather_type', ylabel='count'>`



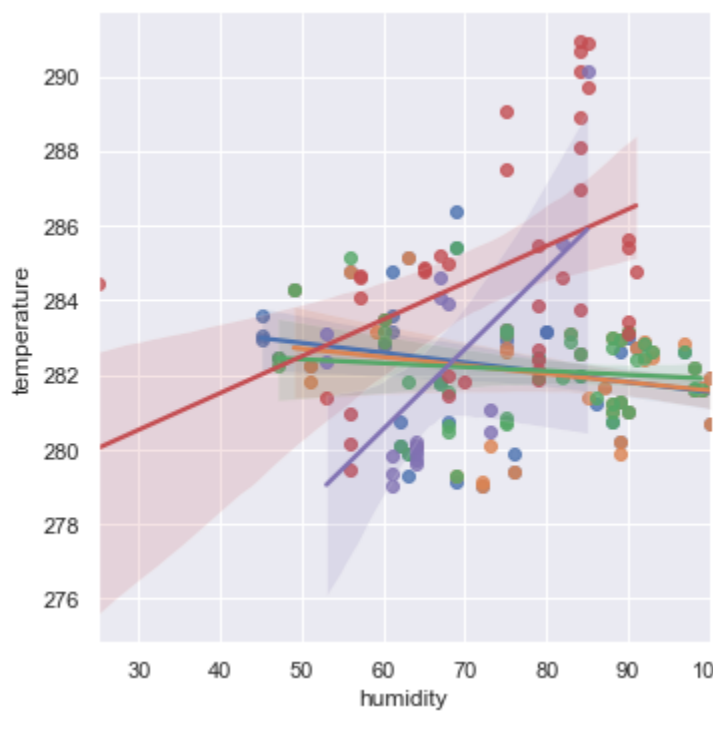
In [20]:
```python
sns.pointplot(weather['humidity'], weather['temperature'], hue=weather['weather_type'])
```

```
C:\Users\jites\Anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positiona
l argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```

Out[20]: `<AxesSubplot:xlabel='humidity', ylabel='temperature'>`

In [22]:
```python
sns.lmplot(x="humidity", y="temperature", data=weather)
```

Out[22]: `<seaborn.axisgrid.FacetGrid at 0x19b86817190>`



In [23]:
```python
sns.lmplot(x="humidity", y="temperature", hue="weather_type", data=weather)
```

Out[23]: `<seaborn.axisgrid.FacetGrid at 0x19b86bac640>`