```
In [1]:  # Single line comment

         # Multiple line comment (not really)

         '''
         We plot the time series of a synthetic data generated and
         the histogram to see the distribution of monthly temperatures
         for the month of January for the Disneyland
         ''';
```

```
In [2]:  '''
         Importing modules
         numpy module to work on arrays
         matplotlib.pyplot for plotting utilities
         '''
         import numpy as np;
         import matplotlib.pyplot as plt;
```
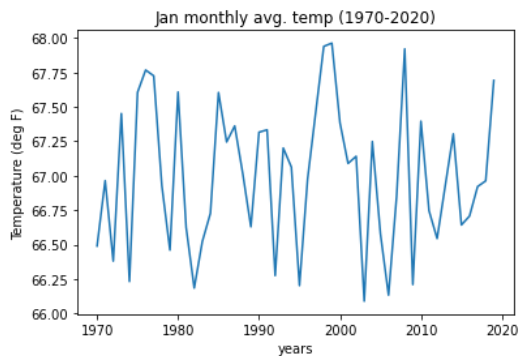
Section 1

```
In [3]:  # importing data (avg. monthly temperatures from 1970 to 2020 for all months)
         yrs= np.arange(1970, 2020)
         dat= 66+ 2.*np.random.rand(50,12);
```

Section 2

```
In [4]:  # plotting avg. monthly temperatures across years (1970- 2020)
         plt.plot(yrs, dat[:,0])
         plt.xlabel("years");
         plt.ylabel("Temperature (deg F)");
         plt.title("Jan monthly avg. temp (1970-2020)");
```


Section 3

```
In [5]:  '''
         Plotting histogram for the month of January to view the distribution of temp.
         '''

         plt.hist(dat[:,0]);
         plt.ylabel("Count")
         plt.xlabel("Temperatures (deg F)")

         plt.title("Histogram for Jan monthly temp (1970-2020)");
```