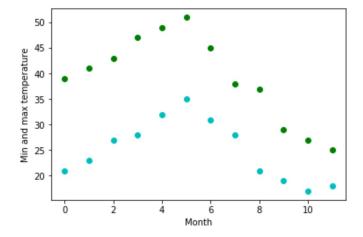
```
In [57]: #We have the min and max temperatures in a city In India for each months of the year.W
import numpy as np

temp_max = np.array([39, 41, 43, 47, 49, 51, 45, 38, 37, 29, 27, 25])
temp_min = np.array([21, 23, 27, 28, 32, 35, 31, 28, 21, 19, 17, 18])

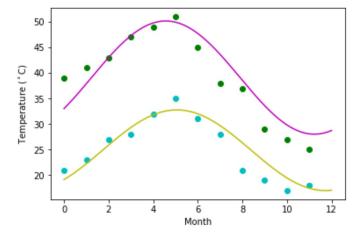
import matplotlib.pyplot as plt
months = np.arange(12)
plt.plot(months, temp_max, 'go')
plt.plot(months, temp_min, 'co')
plt.xlabel('Month')
plt.ylabel('Month')
```

Out[57]: Text(0,0.5,'Min and max temperature')



```
In [71]: #2.plot the fit#
    days = np.linspace(0, 12, num=365)

plt.figure()
    plt.plot(months, temp_max, 'go')
    plt.plot(days, yearly_temps(days, *res_max), 'm-')
    plt.plot(months, temp_min, 'co')
    plt.plot(days, yearly_temps(days, *res_min), 'y-')
    plt.xlabel('Month')
    plt.ylabel('Temperature ($^\circ$C)')
```



In [58]: #This assignment is for visualization using matplotlib:data to use:url=https://raw.git import numpy as np import pandas as pd import matplotlib.pyplot as plt import seaborn as sns %matplotlib inline filename = 'https://raw.githubusercontent.com/Geoyi/Cleaning-Titanic-Data/master/titar titanic_df = pd.read_csv('https://raw.githubusercontent.com/Geoyi/Cleaning-Titanic-Dat titanic_df.head()

Out[58]:

	embarked	boat	body	
B5	S	2	NaN	_
C22 C26	S	11	NaN	С
C22 C26	S	NaN	NaN	С
C22 C26	S	NaN	135.0	С
C22 C26	S	NaN	NaN	С
	C22 C26 C22 C26 C22 C26	C22 C26 S C22 C26 S C22 C26 S	C22 C26 S 11 C22 C26 S NaN C22 C26 S NaN	C22 C26 S 11 NaN C22 C26 S NaN NaN C22 C26 S NaN 135.0

In [59]:

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1310 entries, 0 to 1309
Data columns (total 14 columns):
pclass 1309 non-null float64
survived 1309 non-null float64 name 1309 non-null object
             1309 non-null object
sex
              1046 non-null float64
age
sibsp
              1309 non-null float64
parch
             1309 non-null float64
ticket
            1309 non-null object
             1308 non-null float64
cabin 295 non-null object embarked 1307 non-null object boat 486 non-null object
body 121 non-null float64
home.dest 745 non-null object
dtypes: float64(7), object(7)
memory usage: 143.4+ KB
```

```
In [60]: #1.pie chart presenting the male/female proportion#

def draw_plot(titanic_df):
    proportions = []
    sum_instances = titanic_df['sex'].value_counts()
    length = len(titanic_df['sex'])
    proportions = list(sum_instances)
    labels = ['Males', 'Females']
    explode = (0,0.1)
    sizes = proportions
    fig, ax1 = plt.subplots(figsize = (6,6))
    ax1.pie(sizes, explode = explode, labels = labels, shadow = True, startangle=90)
    ax1.axis('equal')
    ax1.set_title("Sex Proportions")
    return plt.show()
```

Sex Proportions Females

In [61]: #2.scatter plot with the Fare paid and the Age, differ the plot color by gender#

Out[61]: <matplotlib.collections.PathCollection at 0x24a11d8e940>

