### **Matplotlib Assignment:**

#### Scipy:

We have the min and max temperatures in a city In India for each months of the year.

We would like to find a function to describe this and show it graphically, the dataset given below.

Task:

1.fitting it to the periodic function

2.plot the fit

Data

```
Max = 39, 41, 43, 47, 49, 51, 45, 38, 37, 29, 27, 25
Min = 21, 23, 27, 28, 32, 35, 31, 28, 21, 19, 17, 18
```

Solution:

## Fitting it to a periodic function:

#### Plot the fit:

# Matplotlib:

This assignment is for visualization using matplotlib:

data to use:

url=https://raw.githubusercontent.com/Geoyi/Cleaning-Titanic-Data/master/titanic\_original.csv
titanic = pd.read\_csv(url)

**Charts to plot:** 

- 1. Create a pie chart presenting the male/female proportion
- 2. Create a scatterplot with the Fare paid and the Age, differ the plot color by gender

**Solution:** 

```
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np

titanic=pd.read_csv('https://raw.githubusercontent.com/Geoyi/Cleaning-Titanic-Data/master/titanic_original.csv')

# print(titanic.head())

count=titanic['sex'].value_counts()
colors = ['blue', 'orange']
```

```
plt.pie(count,colors=colors,labels=count.index.values.tolist(),autopct='%.1f%%
')
plt.title('Male/Female Proportion')
plt.show()
```