

Session 10

Assignment 1 Question

# *Session 10: Assignment 1*

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## 1. Introduction

This assignment will help you to consolidate the concepts learnt in the session.

## 2. Problem Statement

### 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:

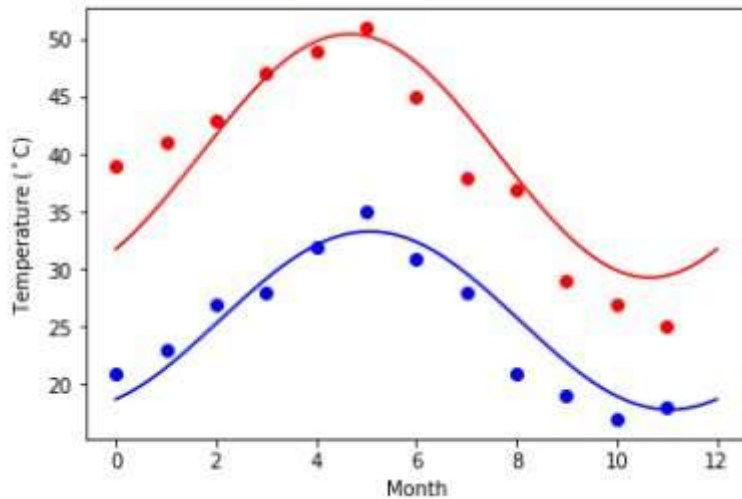
1. fitting it to the periodic function
2. plot the fit

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

### Expected Output:



### Matplotlib:

This assignment is for visualization using matplotlib:

data to use:

[url=  
https://raw.githubusercontent.com/Geoyi/Cleaning-Titanic-Data/master/titanic\\_original.csv  
v](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

### 3. Expected Output

**Note: Solution submitted via github must contain all the source code and final graph.**