Lab-3_Part_2

Matplotlib Exercises

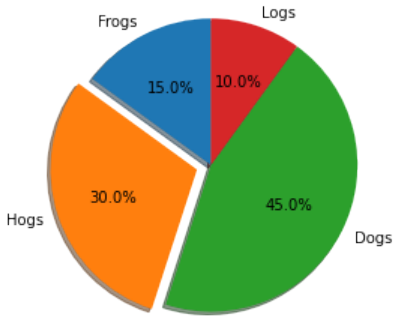
- Name: Devi Sri Swetha Tanuku
- Student ID: N01623362

Import library

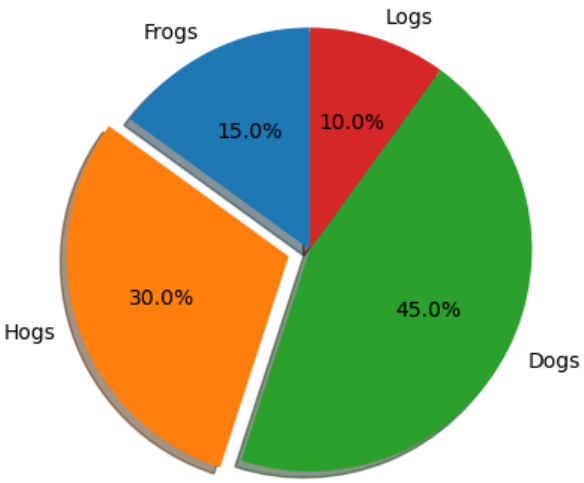
In [86]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

Question 6

In [6]:
```
##Write the code to plot the graph below
```



In [15]:
```
y = [15,30,45,10]
mylabels = ["Frogs", "Hogs", "Dogs", "Logs"]
myexplode = [0, 0.1, 0, 0]
plt.pie(y, labels = mylabels, explode = myexplode, startangle = 90, shadow = True, autopct = '%1.1f%%')
plt.show()
```



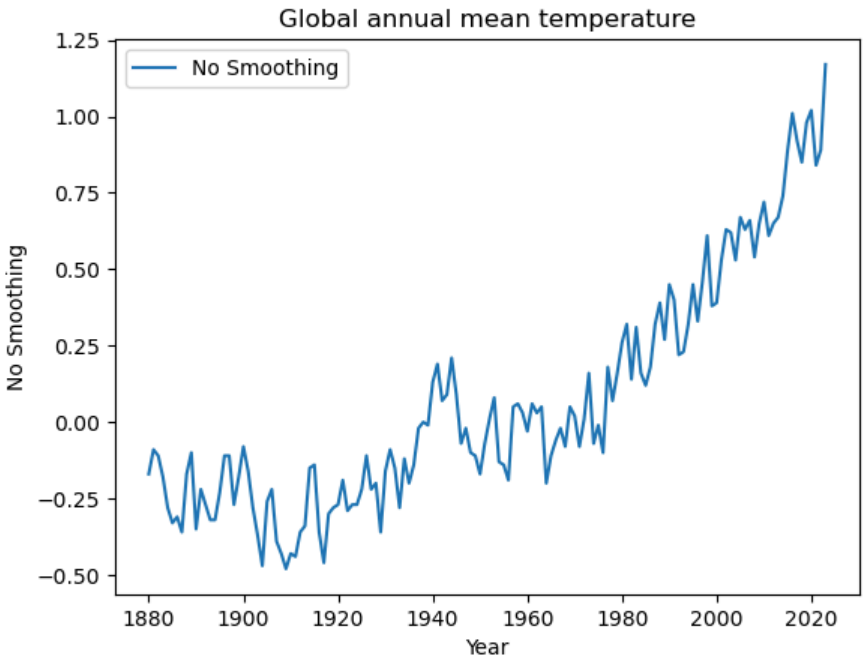
Question 7

Download any random data in CSV or Excel format from the internet and try to analyze the data as per the important attributes present in the file.

Plot the data on a graph.

Try to find out what important information can be obtained from visual representation data.

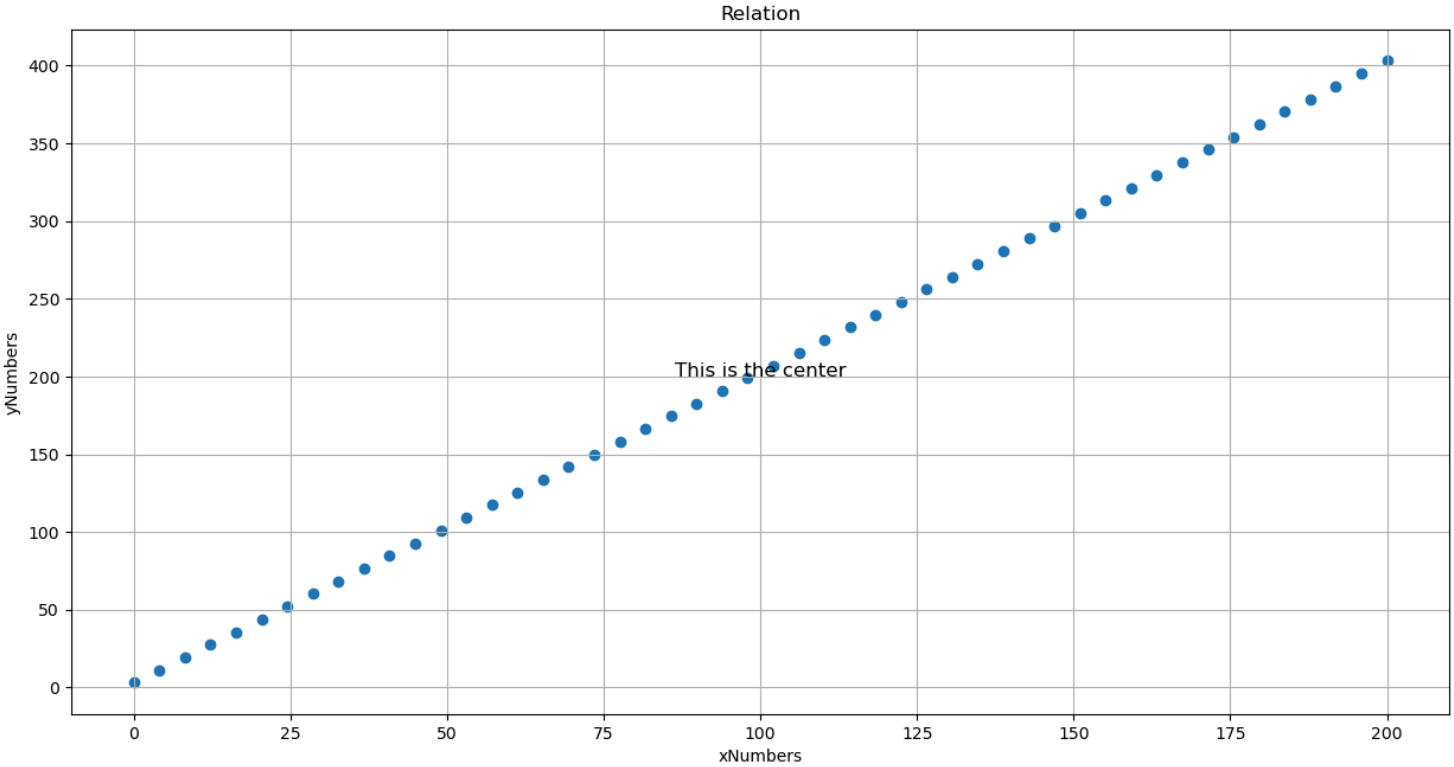
In [98]:
```
glo = pd.read_csv("D:\\AIML\\5000 0NB_Data Analytics\\Assignment_03\\Global_annual_mean_temp.csv")
glo.plot(x='Year', y ='No Smoothing')
plt.xlabel('Year')
plt.ylabel('No Smoothing')
plt.title('Global annual mean temperature')
plt.show()
```



Question 8

Add some text to a graph & create and plot a random linear graph Right at the center if the graph add some text which says this is the center. Also add grids to the graph.

In [108…
```
x = np.linspace(0, 200, 50)
y = 2 * x + 3
plt.figure(figsize = (15,7.5))
plt.scatter(x,y)
plt.title("Relation")
plt.xlabel("xNumbers")
plt.ylabel("yNumbers")
plt.text(100,200, 'This is the center', fontsize = 12, ha = 'center')
plt.grid(True)
plt.show()
```



Please save as Pdf and upload in Blackboard Lab4.