```python
#this miniprojrct is about generating data with noise trying to learn
how to generate data without noise
#then we will be working on plotting it, with best fit curves.
#we will also learn about handling of multiple text files.

#we need scipy just for our curve fit function
import matplotlib.pyplot as plt
import numpy as np
from scipy.optimize import curve_fit                    #optimised is
a module by the help of it we will import curve fit

# the major part of it is you must be able to make the functions for
curve fitting.
#lognormal, exponential, gaussian

def func(x, a, b, c):        #we are defining ageneral function
    return a * np.exp(-b * x) + c
#i will call this function when i want to use it for curve fitting.

# first of all now we will generate x data bcoz we want both the axis
for plotting
xdata = np.linspace(0, 4, 50)   # this is the data
# x is simple that it is a axis . Y mein mera function aana chahiye
# aabhi niche function call kiya

y = func(xdata, 2.5, 1.3, 0.5)       # these are the values of a, b, c

#now i will generate random noises.

rng = np.random.default_rng()            #random gaussian noises and
there are a alot off submodules of random


    #now x data ho gaya and y data ho gaya. and yeh bada hi idealistic
data ho gaya hai. toh fir isme noise dalte hain
    #ab noise generate krr liye ab mein chahata hu ki mere real data
mein noise aa jaaye
y_noise = 0.2 * rng.normal(size=xdata.size)

ydata = y + y_noise

plt.plot(xdata, ydata, 'b-', label= 'Generated data')

#this is the baat of my normal plot


[<matplotlib.lines.Line2D at 0x27405419640>]
```
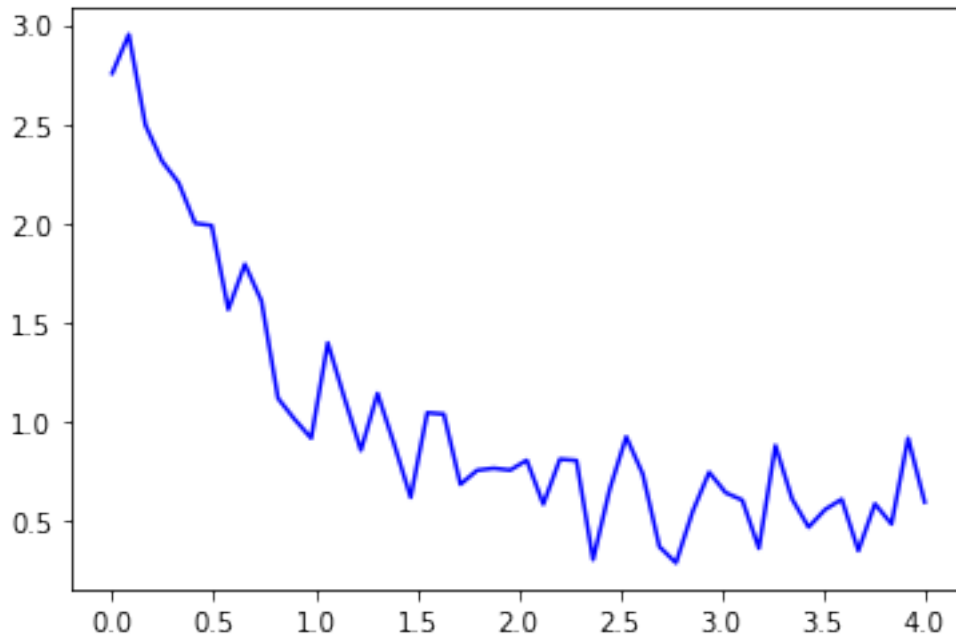
```
x_data = np.linspace(0, 4, 50)    # this is the data
# x is simple that it is a axis . Y mein mera function aana chahiye
# aabhi niche function call kiya

y = func(x_data, 2.5, 1.3, 0.5)      # these are the values of a, b, c

#now i will generate random noises.

rng = np.random.default_rng()            #random gaussian noises and
there are a alot off submodules of random


    #now x data ho gaya and y data ho gaya. and yeh bada hi idealistic
data ho gaya hai. toh fir isme noise dalte hain
    #ab noise generate krr liye ab mein chahata hu ki mere real data
mein noise aa jaaye
y_noise = 0.2 * rng.normal(size=x_data.size)

y_data = y + y_noise

plt.plot(xdata, ydata, 'b-',  label= 'Generated data')

popt, pcov = curve_fit(func, xdata, ydata) #poptimization, in curve
fit there are three parameters
plt.plot(xdata, func(xdata, *popt), 'r-', label= 'Curve fit:a%5.3f, b=
%5.3f, c=%5.3f' % tuple(popt))

popt, pcov = curve_fit(func, xdata, ydata, bounds=(0, [3.0, 1.0,
0.5])) #poptimization, in curve fit there are three parameters
```

```
plt.plot(xdata, func(xdata, *popt), 'g--', label= 'Curve fit:a%5.3f,
b=%5.3f, c=%5.3f' % tuple(popt))

plt.xlabel('X data')
plt.ylabel('Y data')
plt.legend()
plt.show()
```
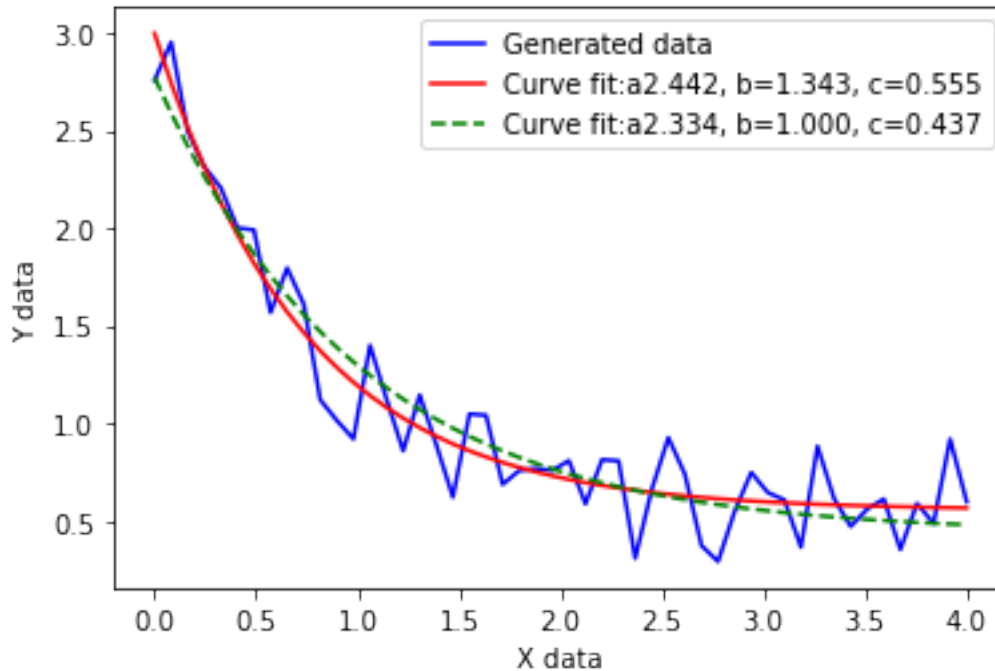


```
import matplotlib.pyplot as plt
from scipy.optimize import curve_fit
import numpy as np

x = np.arange(10)
y = np.array([0, 1, 2, 3, 4, 5, 4, 3, 2, 1])
#weighted arithmatic mean (corrected - check the )

mean = sum(x * y) / sum(y)
sigma = np.sqrt(sum(y * (x - mean)**2) / sum(y))

def Gauss(x, a, x0, sigma):
    return a * np.exp(-(x - x0)**2 / (2 * sigma**2))

popt,pcov = curve_fit(Gauss, x, y, p0=[max(y), mean, sigma])

plt.plot(x, y, 'b+:', label='fit')
plt.legend()
plt.title('Fit for Time Constant')
plt.xlabel('Time (s)')
```

```
plt.ylabel('Voltage (V)')
plt.show()
```


Fit for Time Constant
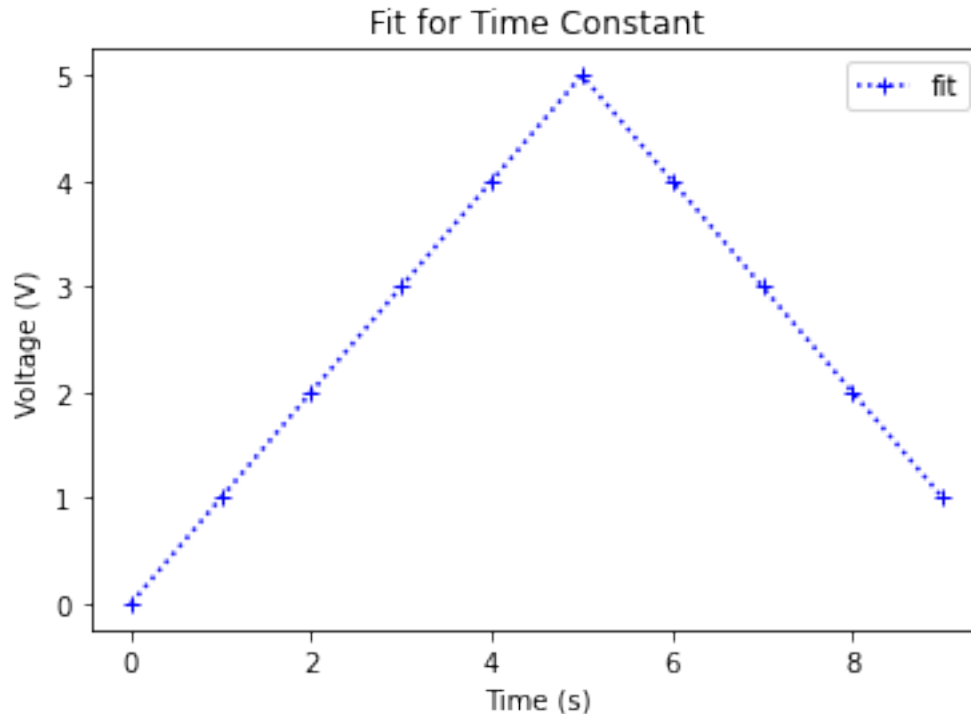
```
import matplotlib.pyplot as plt
from scipy.optimize import curve_fit
import numpy as np

x = np.arange(10)
y = np.array([0, 1, 2, 3, 4, 5, 4, 3, 2, 1])
#weighted arithmatic mean (corrected - check the )

mean = sum(x * y) / sum(y)
sigma = np.sqrt(sum(y * (x - mean)**2) / sum(y))

def Gauss(x, a, x0, sigma):
    return a * np.exp(-(x - x0)**2 / (2 * sigma**2))

popt,pcov = curve_fit(Gauss, x, y, p0=[max(y), mean, sigma])

plt.plot(x, y, 'b+:', label='data')
plt.plot(x, Gauss(x, *popt), 'r-', label='fit')
plt.legend()
plt.title('Fit for Time Constant')
plt.xlabel('Time (s)')
plt.ylabel('Voltage (V)')
plt.show()
```

Fit for Time Constant
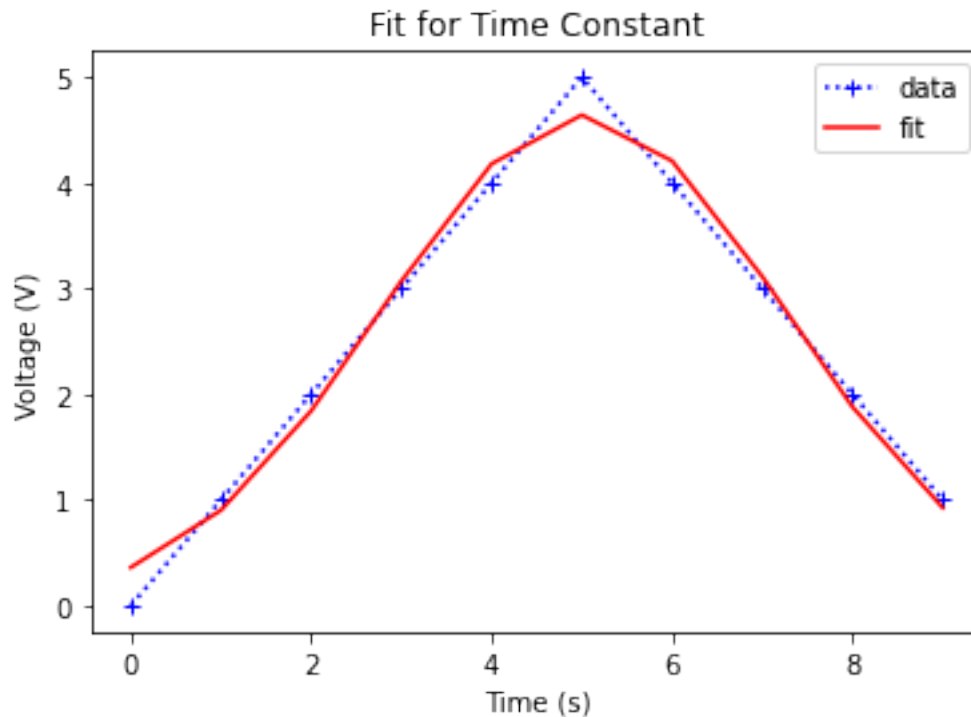
0.3 Plotting Single File data with best fit curves

0.3.1 Plotting text file data with Lognormal fitting curves

```
#importing libraries
from numpy import arange
from pandas import read_csv
from scipy.optimize import curve_fit
from matplotlib import pyplot as plt
import numpy as np

# define the true objective matematical distribution function to be
fitted over the data files
def lognorm(x, mu, sigma) :
    return 1/(np.sqrt(2*np.pi)*sigma*x)*np.exp(-((np.log(x)-
mu)**2)/(2*sigma**2))

#load the dataset
data = np.loadtxt('file_1.txt')
# choose the input and output variables
x, y = data[:, 0], data[:, 1]

# curve fit
popt, _ = curve_fit(lognorm, x, y)
# summarize the parameter values
mu, sigma = popt
```

```
# plot input vs output
plt.scatter(x, y)
#define a sequence of inpits betweeen the smallest and largest known
inputs
x_line = arange(min(x), max(x), 20)

#calculate the output for the range

y_line = lognorm(x_line, mu, sigma)
#create a line plot for the mapping function
plt.plot(x_line, y_line, '--', color='red')
plt.legend(["acual curve", "best fit curve"], loc="best")
plt.show()
```
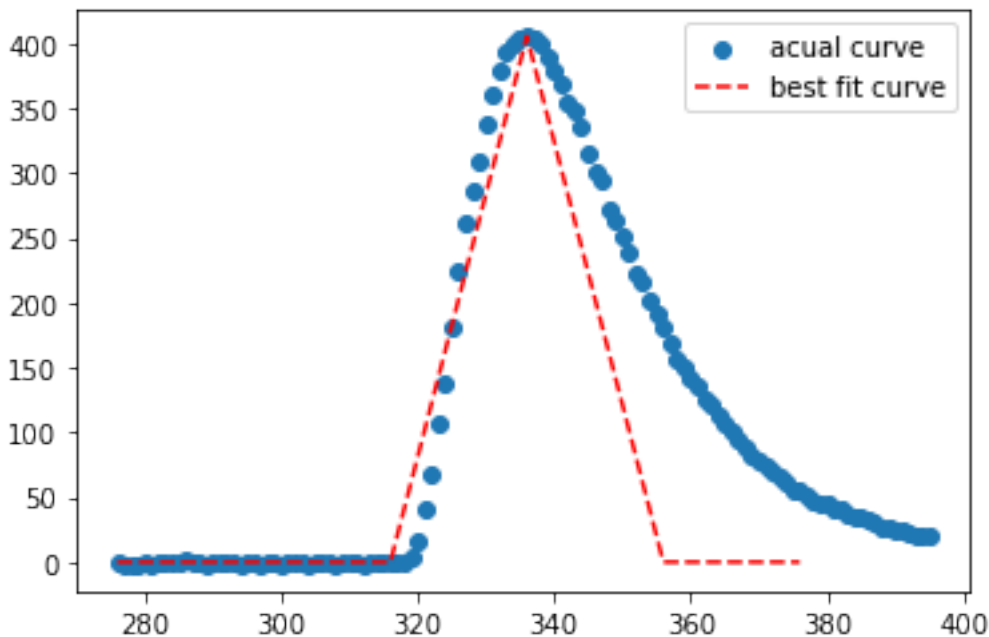


```
# load the dataset
data = np.loadtxt('file_1.txt')
# choose the input and output variables
x, y = data[:, 0], data[:, 1]

def gauss(x, a, x0, sigma):
    return a*np.exp(-(x-x0)**2/(2*sigma**2))

x1 = np.array(x)
n = len(x1)
mean = sum(x*y)/sum(y)
sigma = sum(y*(x-mean)**2)/sum(y)
print(mean, sigma)

popt, pcov = curve_fit(gauss, x, y, p0=[1, mean, sigma])

345.3212747631352 226.84980531680444
```

```
plt.plot(x,y,'-ob', label = 'data')
```
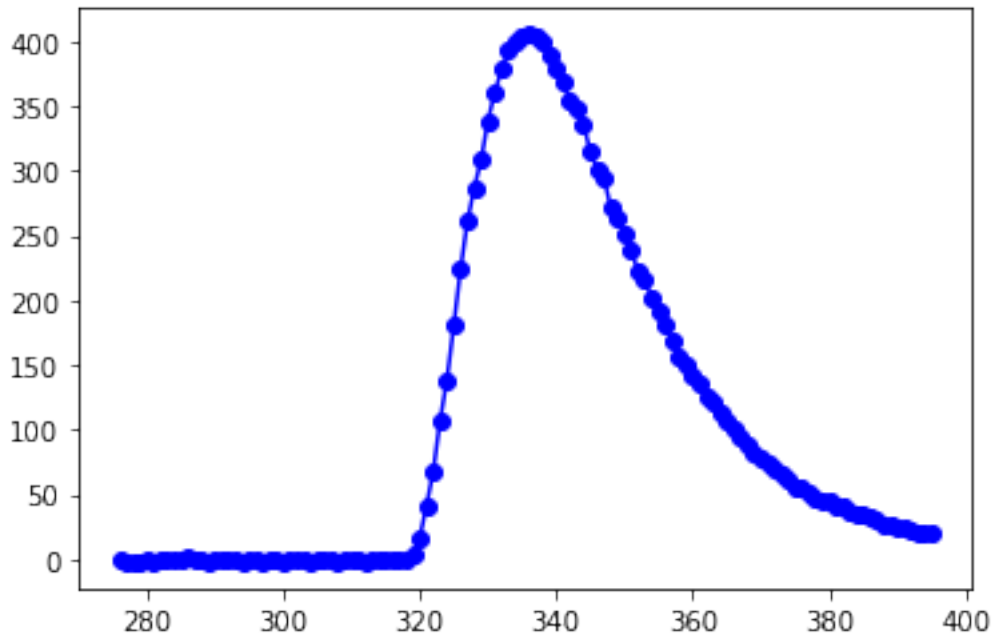
```
[<matplotlib.lines.Line2D at 0x2740706c850>]
```



```
plt.plot(x,y,'ro', label = 'data')
plt.plot(x, gauss(x, *popt), 'g--', label='fit')
plt.legend()
plt.title('Curve fitting for a single pulse(filr_01)')
plt.xlabel('Time in nano seconds')
plt.ylabel('Number of counts')
plt.show()
```

Curve fitting for a single pulse(filr_01)
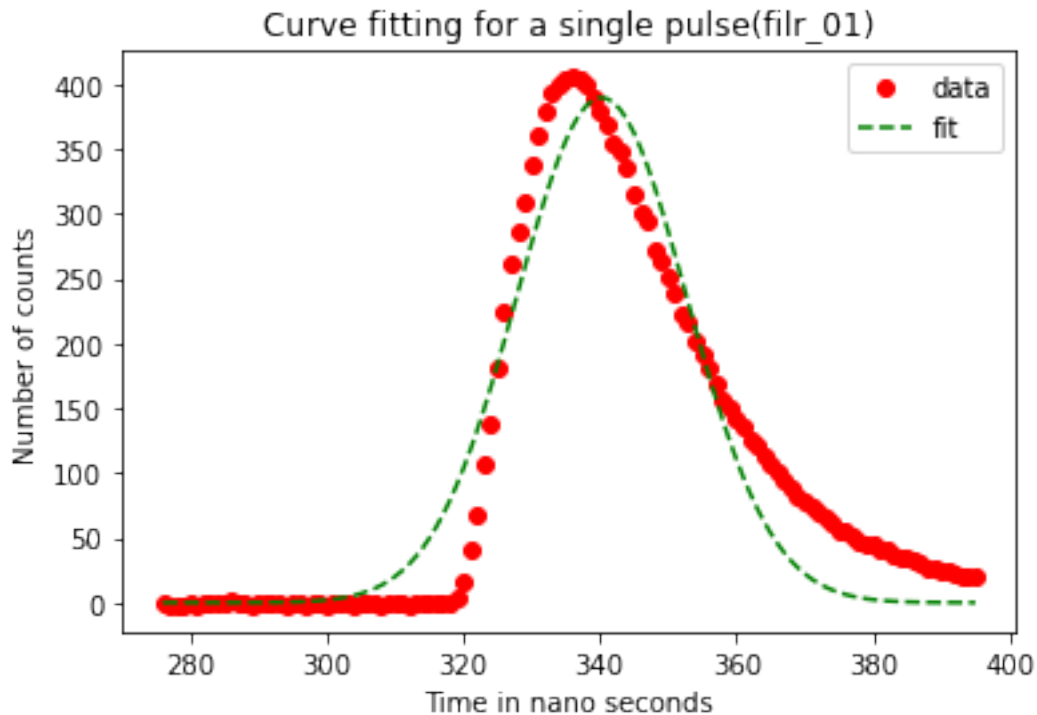
0.4 Plotting text file data with Gaussian fitting curves

```python
#load the dataset
data = np.loadtxt('file_1.txt')
# choose the input and output variables
x, y = data[:, 0], data[:, 1]

def gauss(x, a, x0, sigma):
    return a*np.exp(-(x-x0)**2/(2*sigma**2))

x1 = np.array(x)
n = len(x1)
mean = sum(x*y)/sum(y)
sigma = sum(y*(x-mean)**2)/sum(y)
print(mean, sigma)

popt, pcov = curve_fit(gauss, x, y, p0=[1, mean, sigma])
```

345.3212747631352 226.84980531680444

```python
plt.plot(x,y,'-ob', label = 'data')
```

[<matplotlib.lines.Line2D at 0x27407ea2c70>]

```
plt.plot(x,y,'ro', label = 'data')
plt.plot(x, gauss(x, *popt), 'g--', label='fit')
plt.legend()
plt.title('Curve fitting for a single pulse(file_01)')
plt.xlabel('Time in nano seconds')
plt.ylabel('Number of counts')
plt.show()
```
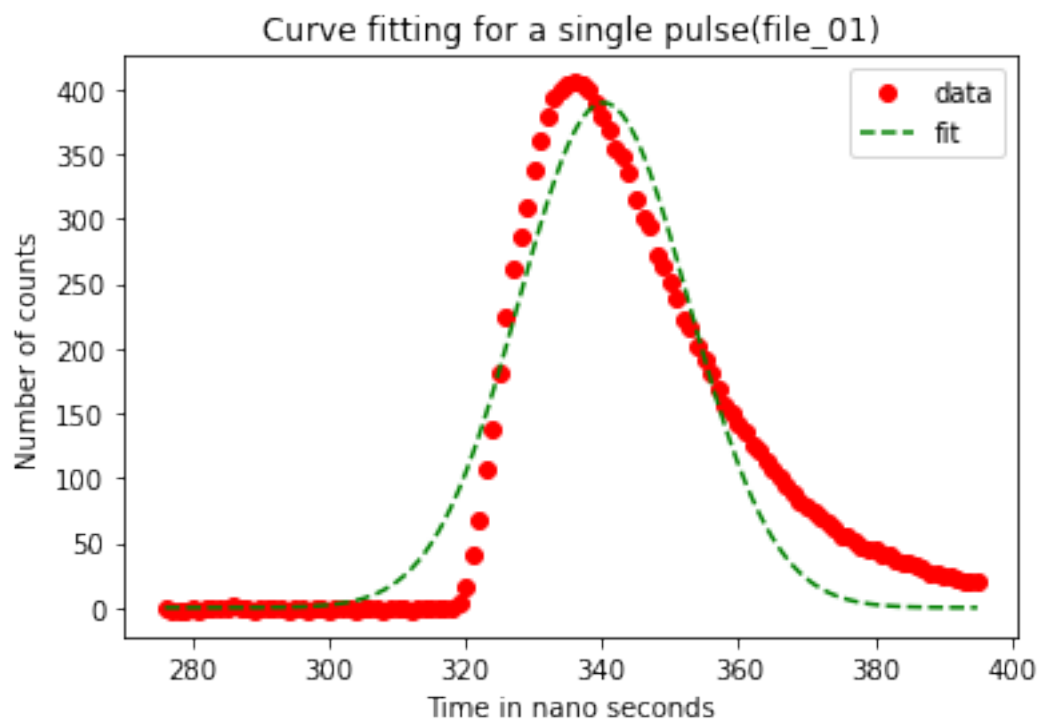
Multiple Text File Handling and Visualizing

pwd

```
'C:\\Users\\lenovo\\Mini Project Data'

mypath = 'C:/Users/lenovo/Mini Project Data'
import os
os.chdir( mypath )
x=list()
y=list()
Tmax2=list()
Tmin2=list()
filenames=list()
rise=list()
decay=list()
for i in range (0,100):
    filenames.append('file_'+str(i)+'.txt')
for a in filenames:
    temp=list()
    for b in open(a):
        temp=b.split()
        x.append(float(temp[0]))
        y.append(float(temp[1]))
for i in range(0, len(x) - 1):
    smallest = i
    for j in range(i + 1, len(x)):
        if x[j] < x[smallest]:
            smallest = j

x[i], x[smallest] = x[smallest], x[i]
y[i], y[smallest] = y[smallest], y[i]
print(x)
print(y)
print()
plt.scatter(x,y,color='green')
plt.title("Scatter Curve for Distribution of 100 pulse")
plt.xlabel("Time in nano seconds")
plt.ylabel("Number of Counts")
plt.show()
```

```
[264.0, 265.0, 266.0, 267.0, 268.0, 269.0, 270.0, 271.0, 272.0, 273.0,
274.0, 275.0, 276.0, 277.0, 278.0, 279.0, 280.0, 281.0, 282.0, 283.0,
284.0, 285.0, 286.0, 287.0, 288.0, 289.0, 290.0, 291.0, 292.0, 293.0,
294.0, 295.0, 296.0, 297.0, 298.0, 299.0, 300.0, 301.0, 302.0, 303.0,
304.0, 305.0, 306.0, 307.0, 308.0, 309.0, 310.0, 311.0, 312.0, 313.0,
314.0, 315.0, 316.0, 317.0, 318.0, 319.0, 320.0, 321.0, 322.0, 323.0,
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334.0, 335.0, 336.0, 337.0, 338.0, 339.0, 340.0, 341.0, 342.0, 343.0,
344.0, 345.0, 346.0, 347.0, 348.0, 349.0, 350.0, 351.0, 352.0, 353.0,
354.0, 355.0, 356.0, 357.0, 358.0, 359.0, 360.0, 361.0, 362.0, 363.0,
```

364.0, 365.0, 366.0, 367.0, 368.0, 369.0, 370.0, 371.0, 372.0, 373.0,
374.0, 375.0, 376.0, 377.0, 378.0, 379.0, 380.0, 381.0, 382.0, 383.0,
276.0, 277.0, 278.0, 279.0, 280.0, 281.0, 282.0, 283.0, 284.0, 285.0,
286.0, 287.0, 288.0, 289.0, 290.0, 291.0, 292.0, 293.0, 294.0, 295.0,
296.0, 297.0, 298.0, 299.0, 300.0, 301.0, 302.0, 303.0, 304.0, 305.0,
306.0, 307.0, 308.0, 309.0, 310.0, 311.0, 312.0, 313.0, 314.0, 315.0,
316.0, 317.0, 318.0, 319.0, 320.0, 321.0, 322.0, 323.0, 324.0, 325.0,
326.0, 327.0, 328.0, 329.0, 330.0, 331.0, 332.0, 333.0, 334.0, 335.0,
336.0, 337.0, 338.0, 339.0, 340.0, 341.0, 342.0, 343.0, 344.0, 345.0,
346.0, 347.0, 348.0, 349.0, 350.0, 351.0, 352.0, 353.0, 354.0, 355.0,
356.0, 357.0, 358.0, 359.0, 360.0, 361.0, 362.0, 363.0, 364.0, 365.0,
366.0, 367.0, 368.0, 369.0, 370.0, 371.0, 372.0, 373.0, 374.0, 375.0,
376.0, 377.0, 378.0, 379.0, 380.0, 381.0, 382.0, 383.0, 384.0, 385.0,
386.0, 387.0, 388.0, 389.0, 390.0, 391.0, 392.0, 393.0, 394.0, 395.0,
280.0, 281.0, 282.0, 283.0, 284.0, 285.0, 286.0, 287.0, 288.0, 289.0,
290.0, 291.0, 292.0, 293.0, 294.0, 295.0, 296.0, 297.0, 298.0, 299.0,
300.0, 301.0, 302.0, 303.0, 304.0, 305.0, 306.0, 307.0, 308.0, 309.0,
310.0, 311.0, 312.0, 313.0, 314.0, 315.0, 316.0, 317.0, 318.0, 319.0,
320.0, 321.0, 322.0, 323.0, 324.0, 325.0, 326.0, 327.0, 328.0, 329.0,
330.0, 331.0, 332.0, 333.0, 334.0, 335.0, 336.0, 337.0, 338.0, 339.0,
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370.0, 371.0, 372.0, 373.0, 374.0, 375.0, 376.0, 377.0, 378.0, 379.0,
380.0, 381.0, 382.0, 383.0, 384.0, 385.0, 386.0, 387.0, 388.0, 389.0,
390.0, 391.0, 392.0, 393.0, 394.0, 395.0, 396.0, 397.0, 398.0, 399.0,
274.0, 275.0, 276.0, 277.0, 278.0, 279.0, 280.0, 281.0, 282.0, 283.0,
284.0, 285.0, 286.0, 287.0, 288.0, 289.0, 290.0, 291.0, 292.0, 293.0,
294.0, 295.0, 296.0, 297.0, 298.0, 299.0, 300.0, 301.0, 302.0, 303.0,
304.0, 305.0, 306.0, 307.0, 308.0, 309.0, 310.0, 311.0, 312.0, 313.0,
314.0, 315.0, 316.0, 317.0, 318.0, 319.0, 320.0, 321.0, 322.0, 323.0,
324.0, 325.0, 326.0, 327.0, 328.0, 329.0, 330.0, 331.0, 332.0, 333.0,
334.0, 335.0, 336.0, 337.0, 338.0, 339.0, 340.0, 341.0, 342.0, 343.0,
344.0, 345.0, 346.0, 347.0, 348.0, 349.0, 350.0, 351.0, 352.0, 353.0,
354.0, 355.0, 356.0, 357.0, 358.0, 359.0, 360.0, 361.0, 362.0, 363.0,
364.0, 365.0, 366.0, 367.0, 368.0, 369.0, 370.0, 371.0, 372.0, 373.0,
374.0, 375.0, 376.0, 377.0, 378.0, 379.0, 380.0, 381.0, 382.0, 383.0,
384.0, 385.0, 386.0, 387.0, 388.0, 389.0, 390.0, 391.0, 392.0, 393.0,
283.0, 284.0, 285.0, 286.0, 287.0, 288.0, 289.0, 290.0, 291.0, 292.0,
293.0, 294.0, 295.0, 296.0, 297.0, 298.0, 299.0, 300.0, 301.0, 302.0,
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323.0, 324.0, 325.0, 326.0, 327.0, 328.0, 329.0, 330.0, 331.0, 332.0,
333.0, 334.0, 335.0, 336.0, 337.0, 338.0, 339.0, 340.0, 341.0, 342.0,
343.0, 344.0, 345.0, 346.0, 347.0, 348.0, 349.0, 350.0, 351.0, 352.0,
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272.0, 273.0, 274.0, 275.0, 276.0, 277.0, 278.0, 279.0, 280.0, 281.0,
282.0, 283.0, 284.0, 285.0, 286.0, 287.0, 288.0, 289.0, 290.0, 291.0,
292.0, 293.0, 294.0, 295.0, 296.0, 297.0, 298.0, 299.0, 300.0, 301.0,
302.0, 303.0, 304.0, 305.0, 306.0, 307.0, 308.0, 309.0, 310.0, 311.0,
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Scatter Curve for Distribution of 100 pulse