A GUI FOR PLOTTING MATHEMATICAL FUNCTIONS AND STATISTICAL DATA USING TKINTER

PROJECT MEMBERS:

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FUNCTIONAL PLOTS:
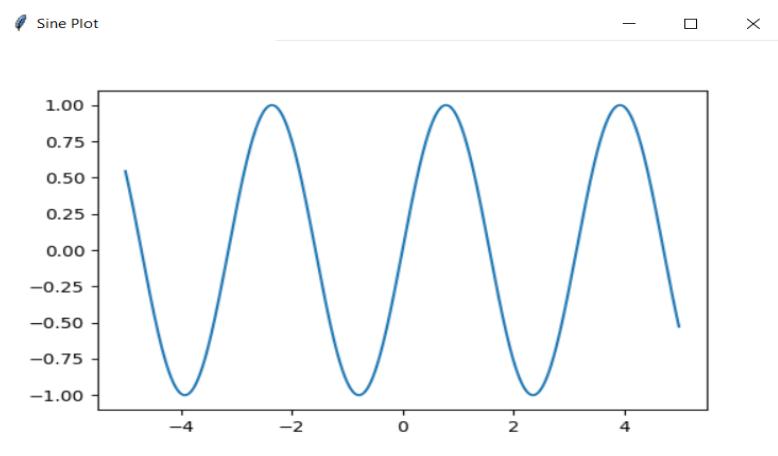
1.SINE PLOT:

Function: Sin(ax) where a=2 and x belongs to [-5,5]

Sine Plot

2.exponential Plot:

○ Statistical Plot

● Functional Plot

Proceed

function name: exponential ⌐   Next

start: -5

End: 5
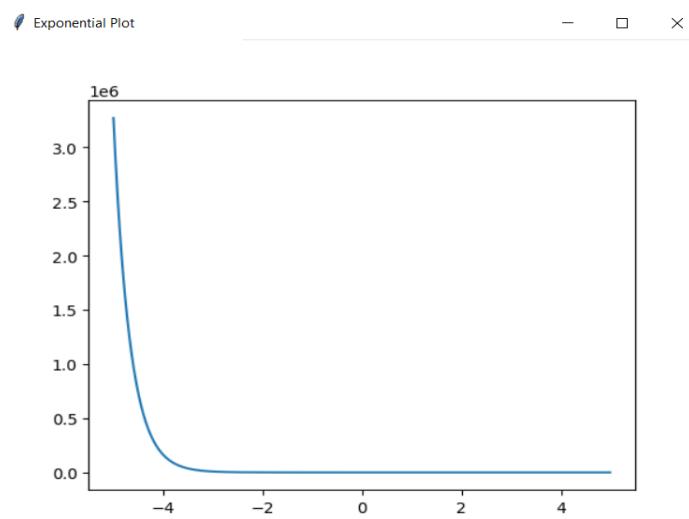
-3

power parameter

plot

Function: e^{ax} where a=-3 and x belongs to [-5,5]

Exponential Plot

3.Polynomial plot:

○ Statistical Plot

● Functional Plot

Proceed

function name: polynomial   Next

start: -5

End: 5

X2:   6

X: -5

C: 1
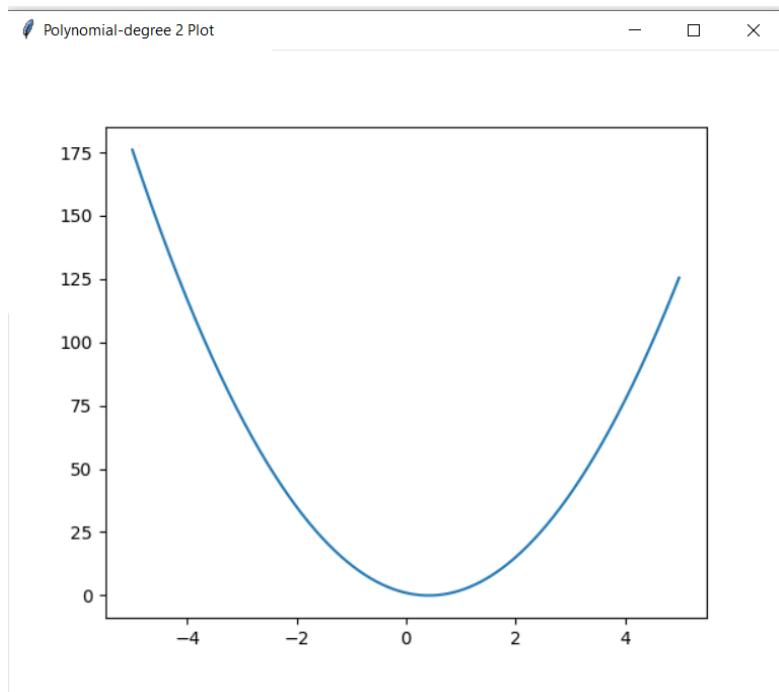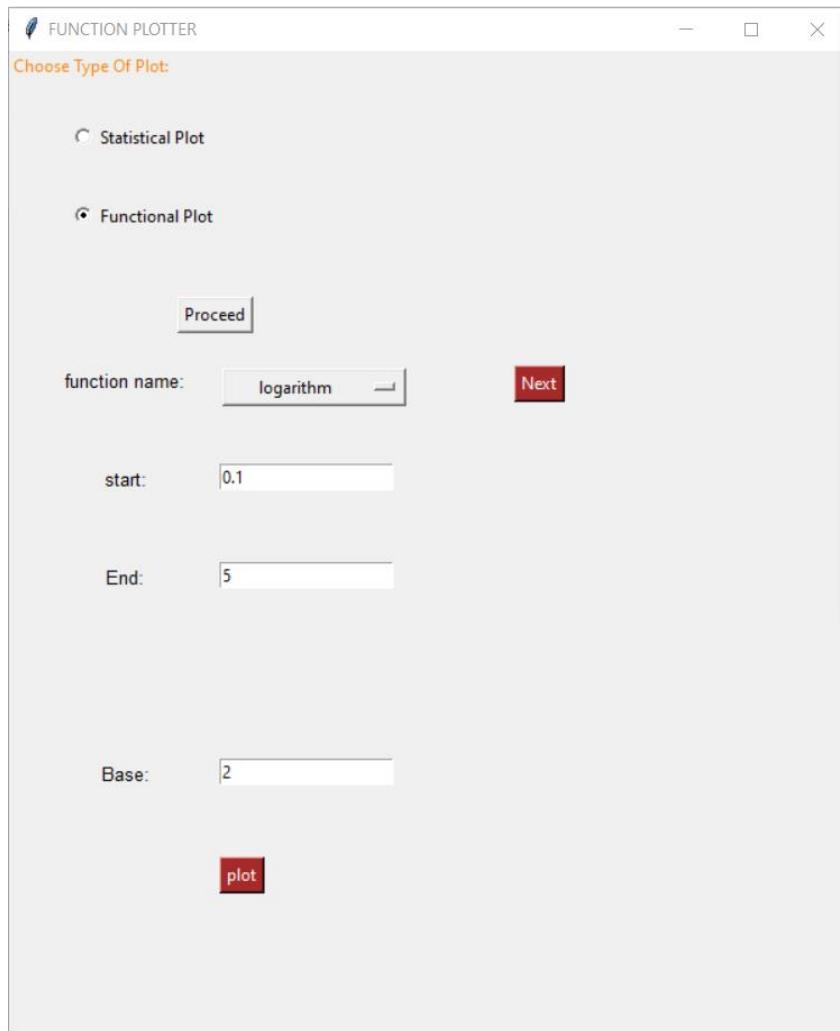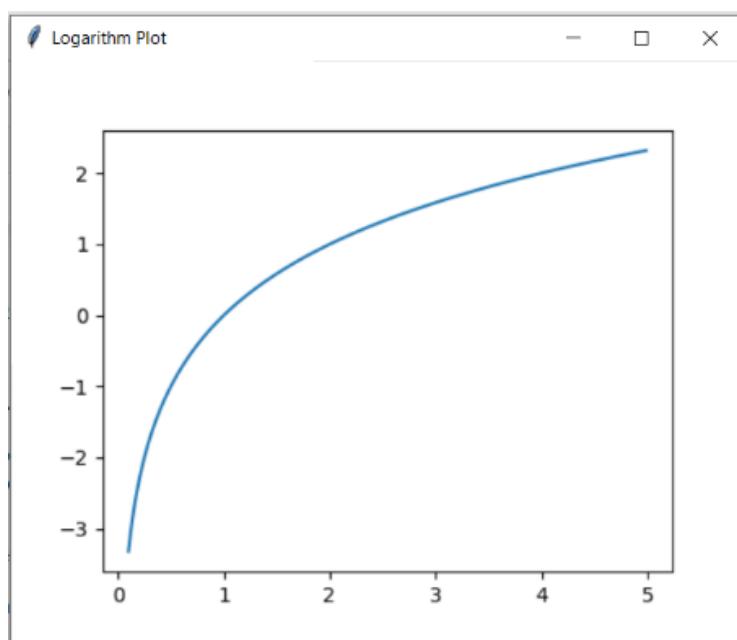
plot

Function: $ax^2 + bx + c$ where a=6 , b=-5, c=1 and x belongs to [-5,5]

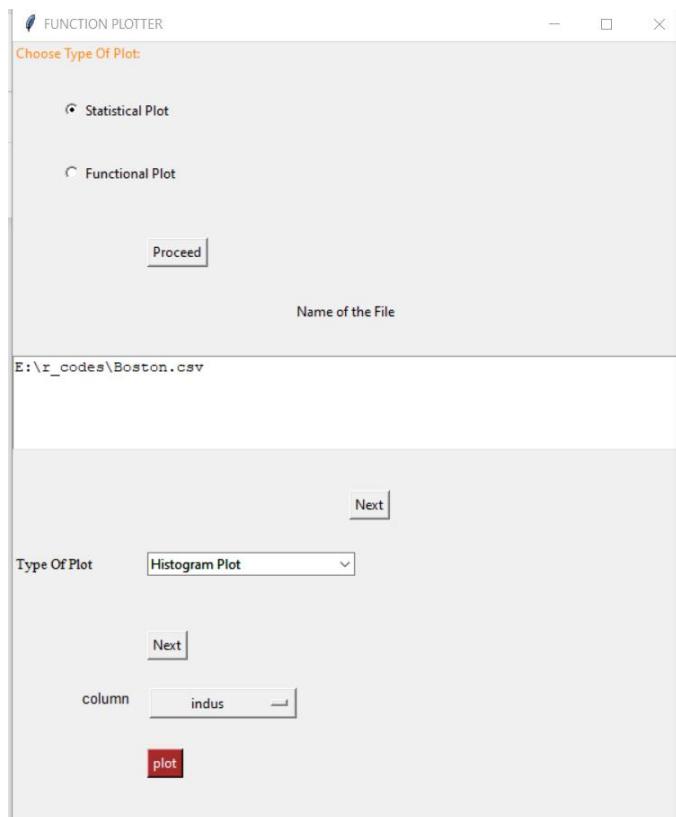Polynomial-degree 2 Plot   —   □   ✕

4.logarithmic plot:

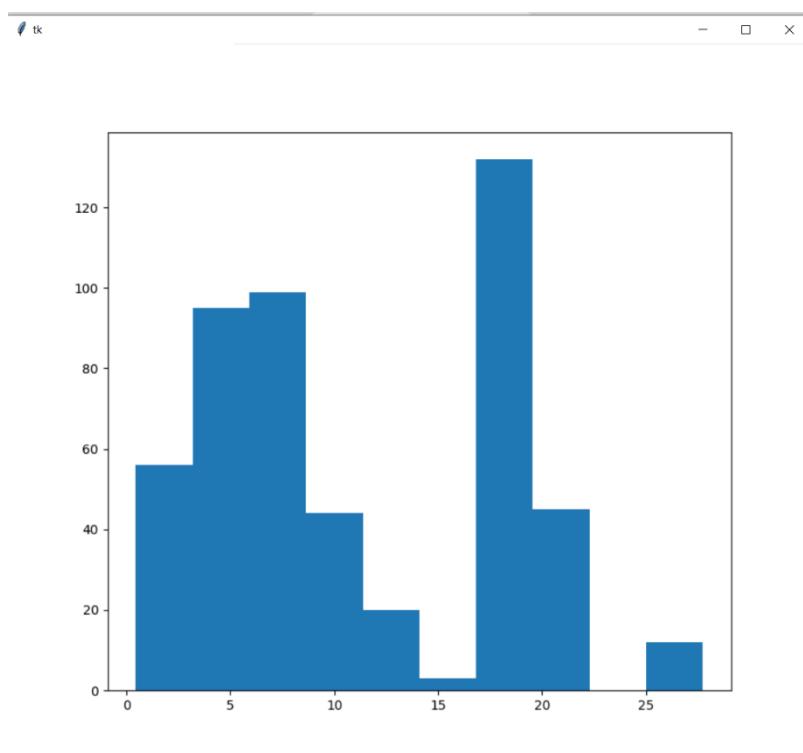Function: $\log_b x$ where b=2 and x belongs to [0.1,5]
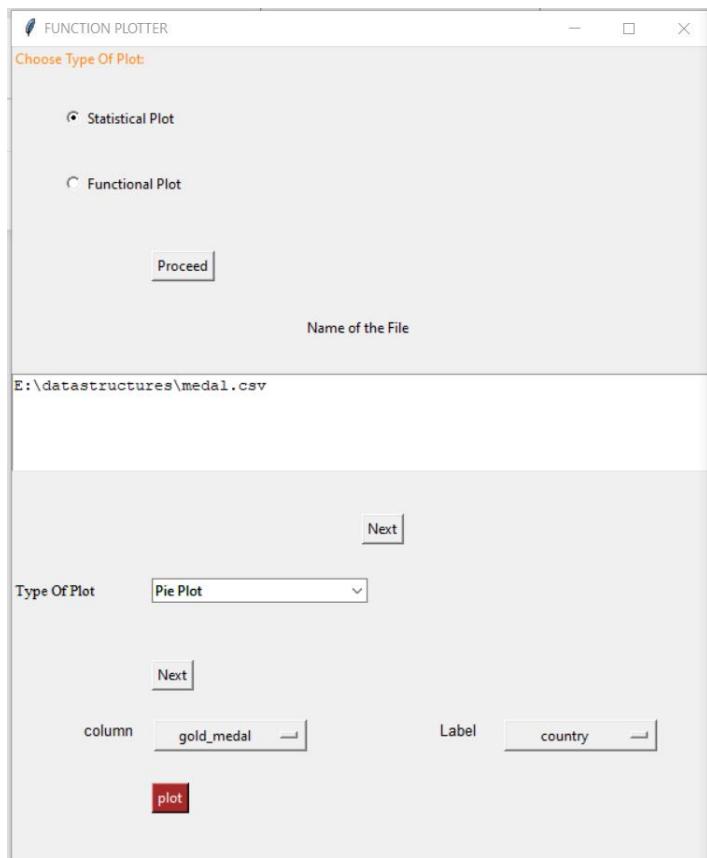
STATISTICAL PLOTS

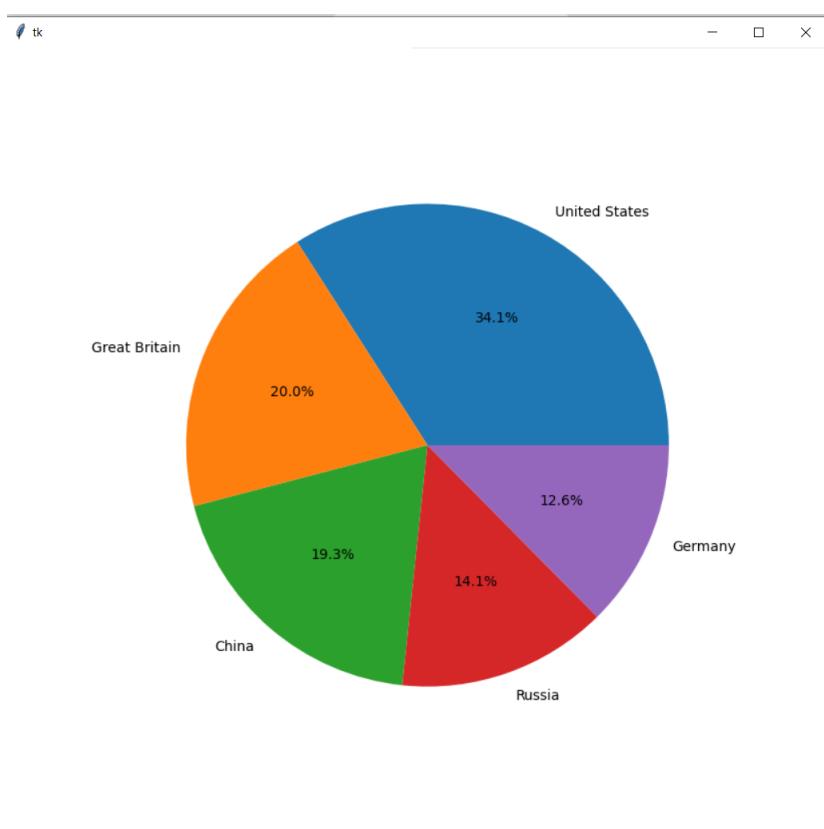## 1.HISTOGRAM PLOT

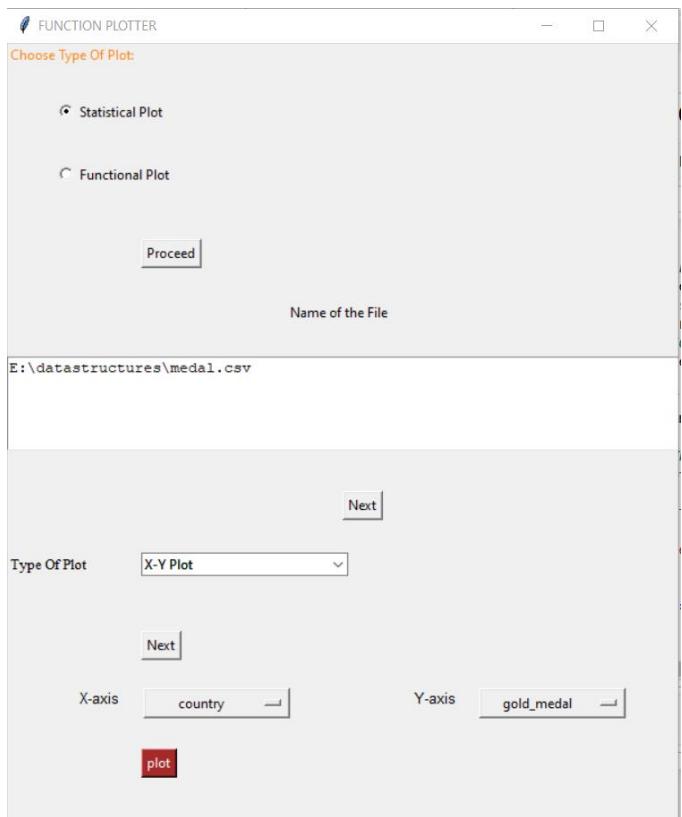HISTOGRAM PLOT OF INDUS COLUMN IN Boston file

2.PIE CHART:

PIE CHART: GOLD MEDALS EARNED BY DIFFERENT COUNTRIES

3. X-Y PLOT:

Bar graph: country in X-Axis and number of gold medals in Y-axis.