PLOTTING PIE CHART

import numpy as np import matplotlib.pyplot as plt

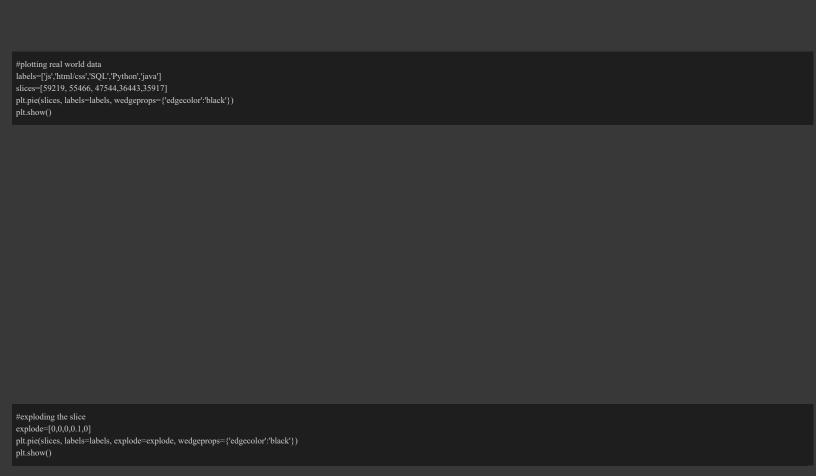
slices = [30, 40, 20, 50] plt.pie(slices) plt.show()



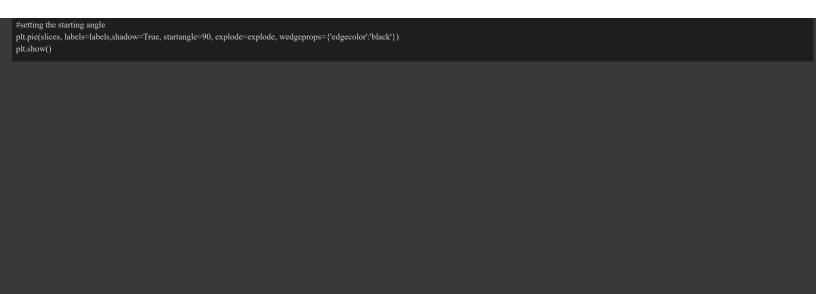
#adding labels labels = ['thirty','forty','twenty','fifty'] plt.pic(slices, labels=labels) plt.show()

#setting edge color plt.pie(slices, labels=labels, wedgeprops={'edgecolor':'black'}) plt.show()

#setting slice colors
color=['blue','red','yellow','green']
plt.pie(slices, labels=labels, colors=color, wedgeprops={'edgecolor':'black'})
plt.show()



#adding shadow
plt.pie(slices, labels=labels,shadow=True, explode=explode, wedgeprops={'edgecolor':'black'})
plt.show()



 $\label{lem:continuous} $$\# displaying \% of each slices $$ plt.pie(slices, labels=labels, shadow=True, startangle=90, autopct="\%0.1f\%", explode=explode, wedgeprops={'edgecolor':black'}) $$ plt.show()$

LINE PLOT

import random

#generate 10 random nos. btwn 25 to 35
ages=[random.randrange(25,35,1) for ages in range(11)]
ages=sorted(ages, reverse=False)
#generate 10 random nos. btwn 30k to 45k
devs = [random.randrange(30000,45000) for devs in range(11)]
devs=sorted(devs, reverse=False)
print(ages)
print(devs)

[26, 27, 28, 29, 30, 31, 31, 32, 32, 34, 34] [31073, 32591, 33610, 37444, 37601, 39097, 39121, 40139, 40956, 43278, 43390]

#plotting line plot plt.plot(ages, devs) plt.show() #adding title, xlabel & ylabel
plt.plot(ages, devs)
plt.title("Median salary in \$ with age")
plt.xlabel("Age")
plt.ylabel("Median salary in \$")
plt.show()

adding more graphs to the same graph
py_devs = [random.randrange(50000,75000) for py_devs in range(11)]
py_devs=sorted(py_devs, reverse=False)
plt.plot(ages, devs)
plt.plot(ages, py_devs)
plt.title("Median salary in \$ with age")
plt.xlabel("Age")
plt.ylabel("Median salary in \$")
plt.show()

#adding legend to the plot

plt.plot(ages, devs, label="All developers")
plt.plot(ages, py_devs, label="Python developers")
plt.title("Median salary in \$ with age")
plt.ylabel("Age")
plt.ylabel("Median salary in \$")
plt.legend()
plt.show()

```
#setting color, markers,linestyle, line width
plt.style.use('seaborn-bright') #to change the style
plt.style.use('geplot')
plt.plot(ages, devs,color="blue", linestyle="-", marker="D",linewidth=3, label="All developers")
plt.plot(ages, py_devs,color="red", linestyle="-", marker="o", label="Python developers")
plt.title("Median salary in $ with age")
plt.tylabel("Age")
plt.ylabel("Median salary in $")
plt.grid(True) #adding grid to the plot
plt.legend()
plt.legend()
plt.tight_layout() #add padding to the plot
plt.savefig("linePlot.png") # saving the plot
plt.show()
```