import matplotlib

from matplotlib import pyplot as plt

from matplotlib.backends.backend\_pdf import PdfPages

import pandas as pd

import seaborn as sns

df = pd.read\_csv('Cars2.csv')

# customizing runtime configuration stored

# in matplotlib.rcParams

#plt.rcParams["figure.figsize"] = [7.00, 3.50]

#plt.rcParams["figure.autolayout"] = True

fig1 = plt.figure()

x=df.wt

y=df.mpg

plt.xlabel('Weight')

plt.ylabel('Mpg')

plt.title('scater plot')

plt.scatter(x,y)

fig2 = plt.figure()

e = df.wt

u = df.model

plt.title('line graph')

plt.plot(e,u)

fig3 = plt.figure()

y= df.mpg

plt.title('histogram')

plt.hist(y, bins = 5 ,);

fig4 = plt.figure()

a=df.trans

b=df.model

plt.xlabel('TRANSMISSION TYPE')

plt.ylabel('MODEL')

plt.title('bar graph')

plt.bar(a,b,color ='red',edgecolor='black',linewidth=5 )

fig5 = plt.figure()

plt.pie(a, labels=b)

plt.title("Pie Chart")

cols = ['b','c','g', 'orange']

plt.pie(a,labels =b,colors = cols,startangle = 90,shadow = True,autopct ='%0.2f%%')

fig6 = plt.figure()

plt.title('box plot')

sns.boxplot(df['hp'])

def save\_image(filename):

# PdfPages is a wrapper around pdf

# file so there is no clash and create

# files with no error.

p = PdfPages(filename)

# get\_fignums Return list of existing

# figure numbers

fig\_nums = plt.get\_fignums()

figs = [plt.figure(n) for n in fig\_nums]

# iterating over the numbers in list

for fig in figs:

# and saving the files

fig.savefig(p, format='pdf')

# close the object

p.close()

# name your Pdf file

filename = "multi\_plot\_image1.pdf"

# call the function

save\_image(filename)