import pandas as pd import numpy as np import matplotlib.pyplot as plt import seaborn as sns from datetime import datetime

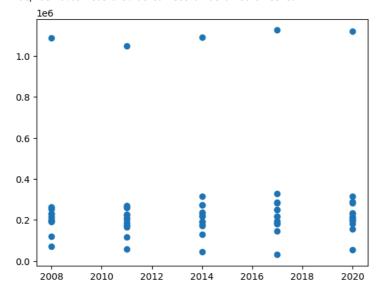
data = pd.read\_csv("/content/householdtask3.csv")

display(data.head(10))

	year	tot_hhs	own	own_wm	own_prop	own_wm_prop	prop_hhs	age	size	income	expenditure	eqv_income	eqv_exp	
0	2008	1560859	1087580	574406	69.7	36.8	100.0	35.9	2.7	46704	42394	26869	25132	11.
1	2008	185965	71256	39405	38.3	21.2	11.9	29.9	2.6	23404	25270	14258	15824	
2	2008	312376	191470	48424	61.3	15.5	20.0	40.0	2.3	16747	21145	13402	14408	
3	2008	312333	196203	84171	62.8	26.9	20.0	34.7	2.8	31308	29855	18917	18266	
4	2008	312240	217657	141318	69.7	45.3	20.0	31.5	3.0	49106	46561	26870	24672	
5	2008	312336	229014	147658	73.3	47.3	20.0	35.3	2.6	61674	52776	36691	31958	
6	2008	311574	253235	152835	81.3	49.1	20.0	39.3	2.5	96861	72822	55637	42932	
7	2008	312761	194358	49448	62.1	15.8	20.0	38.7	2.5	23680	16413	15190	11015	
8	2008	311973	206342	86390	66.1	27.7	20.0	36.1	2.7	34155	29085	20357	18121	
9	2008	311840	194361	108065	62.3	34.7	20.0	33.0	2.8	49771	42662	27203	25132	

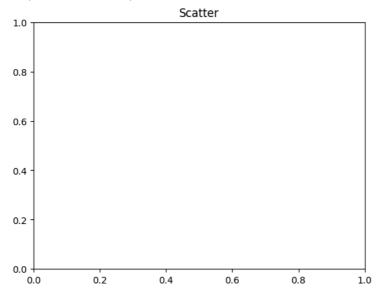
plt.scatter(data['year'],data['own'])

<matplotlib.collections.PathCollection at 0x7b628f7554e0>

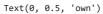


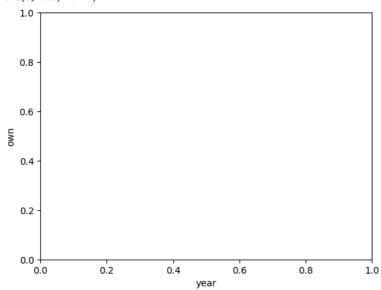
#title
plt.title("Scatter")

Text(0.5, 1.0, 'Scatter')



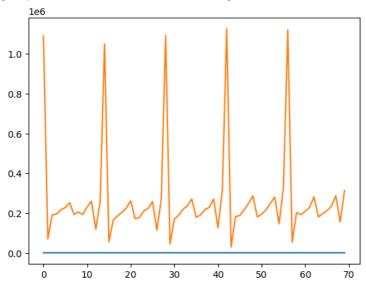
#labelling
plt.xlabel("year")
plt.ylabel("own")



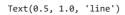


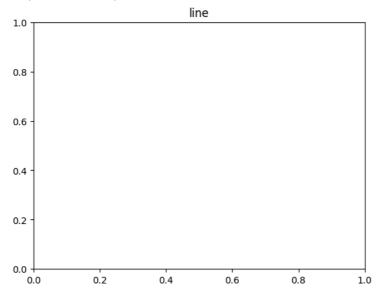
#add legends
plt.show()
plt.plot(data['year'])
plt.plot(data['own'])

[<matplotlib.lines.Line2D at 0x7b628d517fa0>]

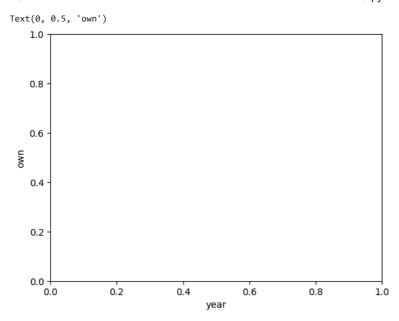


#title
plt.title("line")





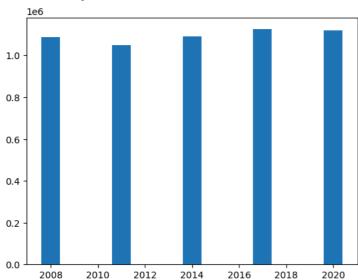
#labelling
plt.xlabel("year")
plt.ylabel("own")



#add legends
plt.show()

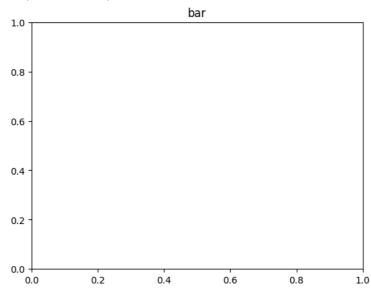
plt.bar(data['year'],data['own'])

<BarContainer object of 70 artists>

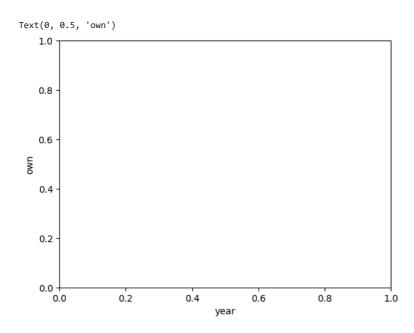


#title
plt.title("bar")

Text(0.5, 1.0, 'bar')

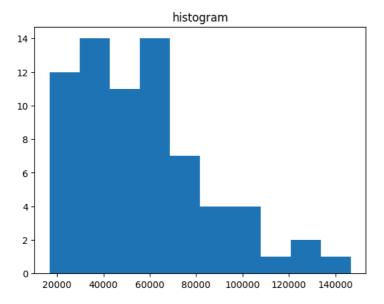


#labelling
plt.xlabel("year")
plt.ylabel("own")



#add legends
plt.show()

#histo
plt.hist(data['income'])
plt.title("histogram")
plt.show()

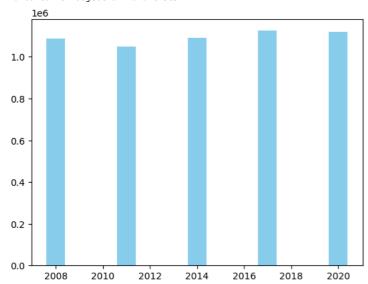


# Set figure size
plt.figure(figsize=(10, 6))

<Figure size 1000x600 with 0 Axes>
<Figure size 1000x600 with 0 Axes>

# Bar Chart
plt.bar(data['year'], data['own'], color='skyblue')

<BarContainer object of 70 artists>



# Title
plt.title("Bar Chart")

Text(0.5, 1.0, 'Bar Chart')