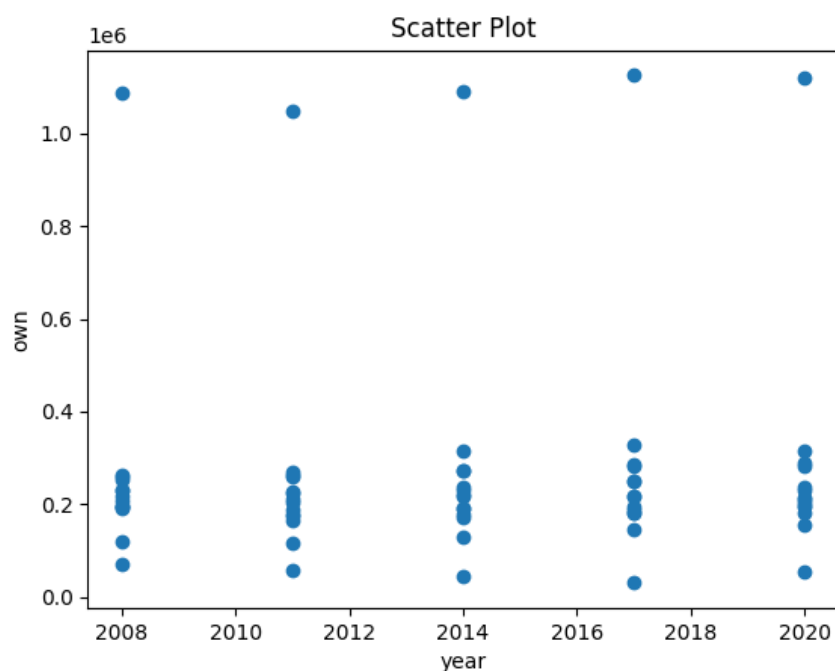


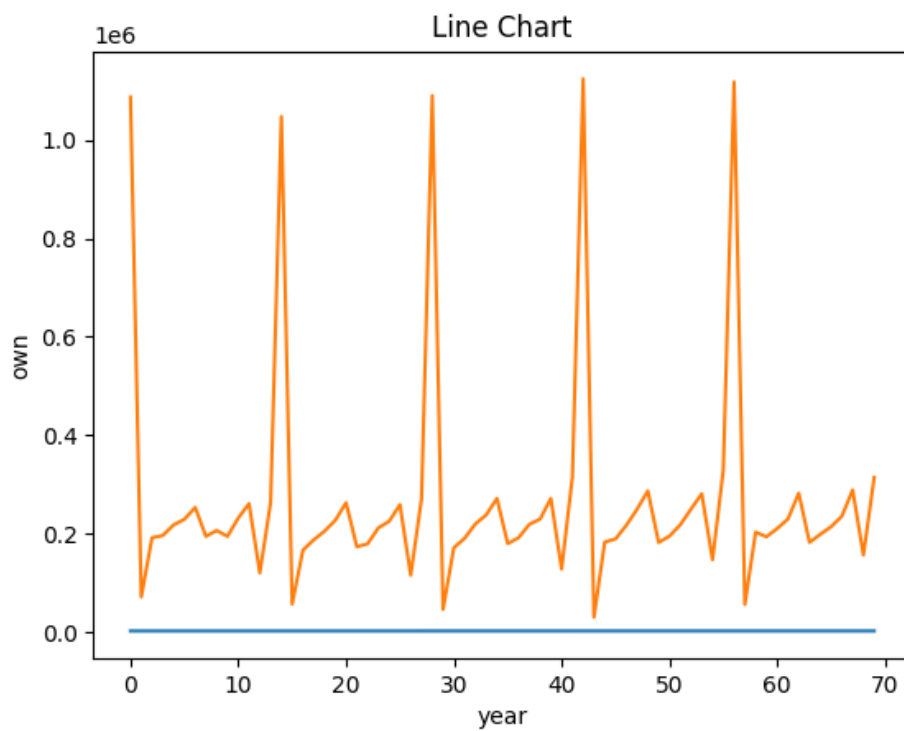
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from datetime import datetime
data = pd.read_csv("C:\\C tutorials\\Internship\\task 3\\householdtask3.csv")
print((data.head(10)))
```

```
PS C:\C tutorials\Internship\task 3> python -u "c:\C tutorials\Internship\task 3\graph.py"
0  year  tot_hhs  own  own_wm  own_prop  own_wm_prop  prop_hhs  age  size  income  expenditure  eqv_income  eqv_exp
1  2008  1560859  1087580  574406  69.7  36.8  100.0  35.9  2.7  46704  42394  26869  25132
2  2008  185965  71256  39405  38.3  21.2  11.9  29.9  2.6  23404  25270  14258  15824
3  2008  312376  191470  48424  61.3  15.5  20.0  40.0  2.3  16747  21145  13402  14408
4  2008  312333  196203  84171  62.8  26.9  20.0  34.7  2.8  31308  29855  18917  18266
5  2008  312240  217657  141318  69.7  45.3  20.0  31.5  3.0  49106  46561  26870  24672
6  2008  312336  229014  147658  73.3  47.3  20.0  35.3  2.6  61674  52776  36691  31958
7  2008  311574  253235  152835  81.3  49.1  20.0  39.3  2.5  96861  72822  55637  42932
8  2008  312761  194358  49448  62.1  15.8  20.0  38.7  2.5  23680  16413  15190  11015
9  2008  311973  206342  86390  66.1  27.7  20.0  36.1  2.7  34155  29085  20357  18121
10 2008  311840  194361  108065  62.3  34.7  20.0  33.0  2.8  49771  42662  27203  25132
```

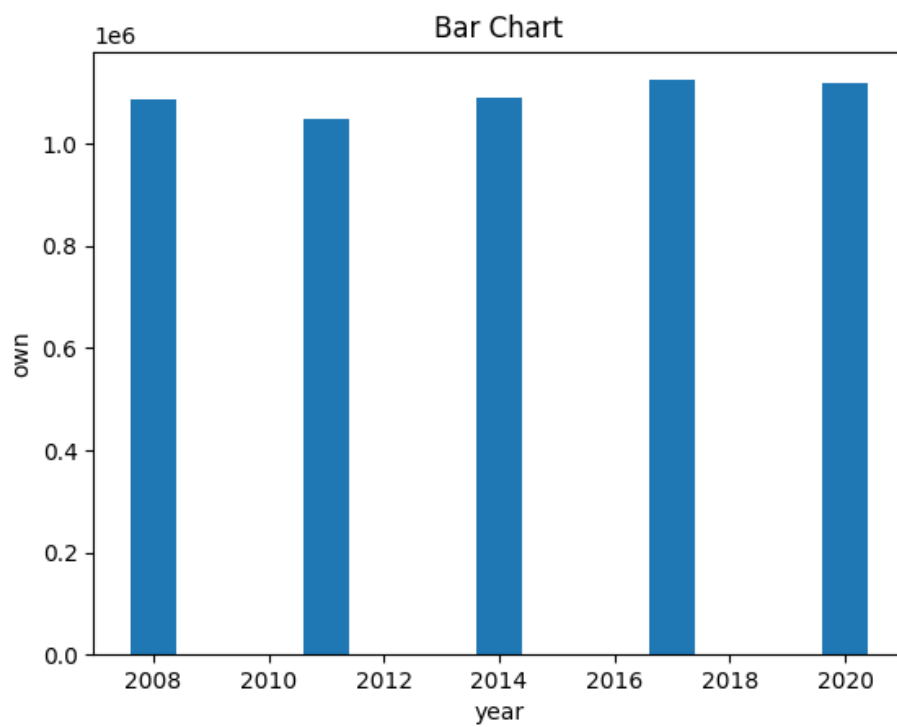
```
#Scatter Plot with Year against own
plt.scatter(data['year'],data['own'])
#adding title to the plot
plt.title("Scatter Plot")
#setting the x and y lables
plt.xlabel('year')
plt.ylabel('own')
#adding the legends
plt.show()
```



```
#Line chart with year against own
plt.plot(data['year'])
plt.plot(data['own'])
#adding title to the plot
plt.title("Line Chart")
#setting the x and y lables
plt.xlabel('year')
plt.ylabel('own')
#adding the legends
plt.show()
```



```
#Bar chart or bar plot
plt.bar(data['year'],data['own'])
#adding title to the Bar
plt.title("Bar Chart")
#setting the x and y lables
plt.xlabel('year')
plt.ylabel('own')
plt.show()
```



```
#Histogram Bar Chart
plt.hist(data['income'])

#adding title to the Histogram
plt.title("Bar Chart")
#setting the x and y lables
plt.xlabel('year')
plt.ylabel('own')
plt.show()
```

