```python
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:\\Users\\HP\\Downloads\\householdtask3.csv')

display(data.head(10))
```

```
    year  tot_hhs       own  own_wm  own_prop  own_wm_prop  prop_hhs
age  \
0   2008  1560859  1087580  574406      69.7         36.8     100.0
35.9
1   2008   185965    71256   39405      38.3         21.2      11.9
29.9
2   2008   312376   191470   48424      61.3         15.5      20.0
40.0
3   2008   312333   196203   84171      62.8         26.9      20.0
34.7
4   2008   312240   217657  141318      69.7         45.3      20.0
31.5
5   2008   312336   229014  147658      73.3         47.3      20.0
35.3
6   2008   311574   253235  152835      81.3         49.1      20.0
39.3
7   2008   312761   194358   49448      62.1         15.8      20.0
38.7
8   2008   311973   206342   86390      66.1         27.7      20.0
36.1
9   2008   311840   194361  108065      62.3         34.7      20.0
33.0

    size  income  expenditure  eqv_income  eqv_exp
0   2.7   46704        42394       26869    25132
1   2.6   23404        25270       14258    15824
2   2.3   16747        21145       13402    14408
3   2.8   31308        29855       18917    18266
4   3.0   49106        46561       26870    24672
5   2.6   61674        52776       36691    31958
6   2.5   96861        72822       55637    42932
7   2.5   23680        16413       15190    11015
8   2.7   34155        29085       20357    18121
9   2.8   49771        42662       27203    25132
```
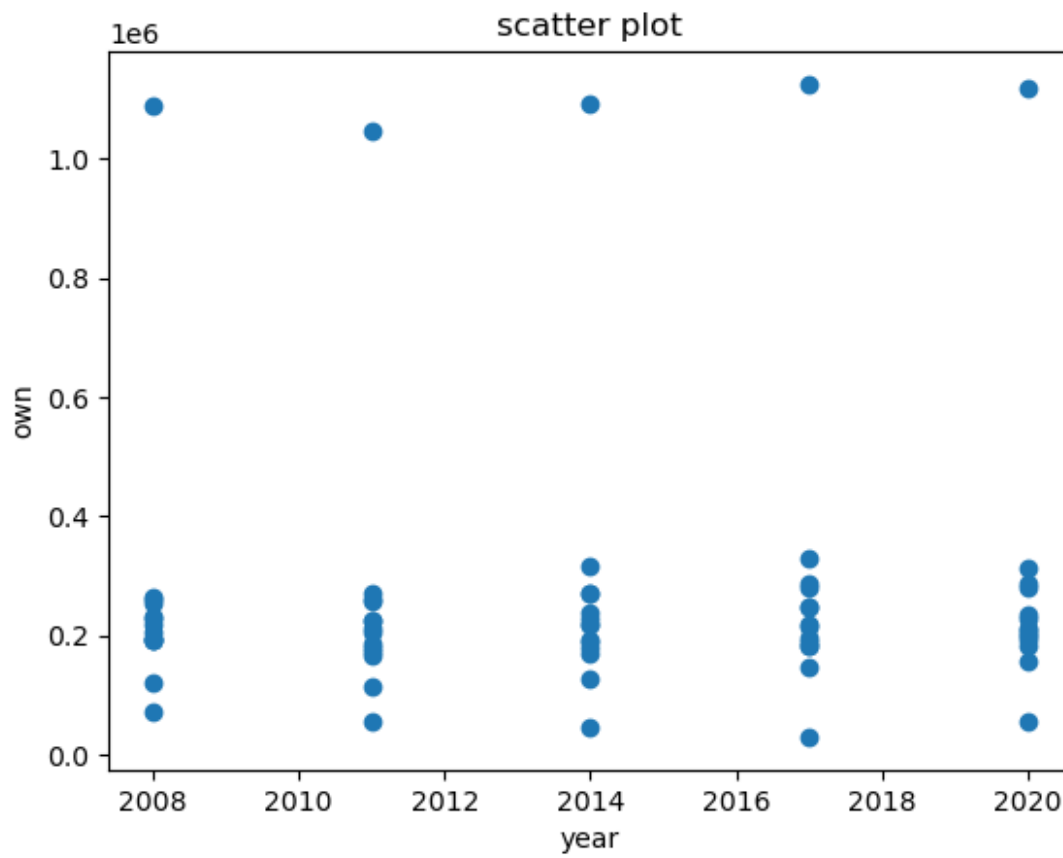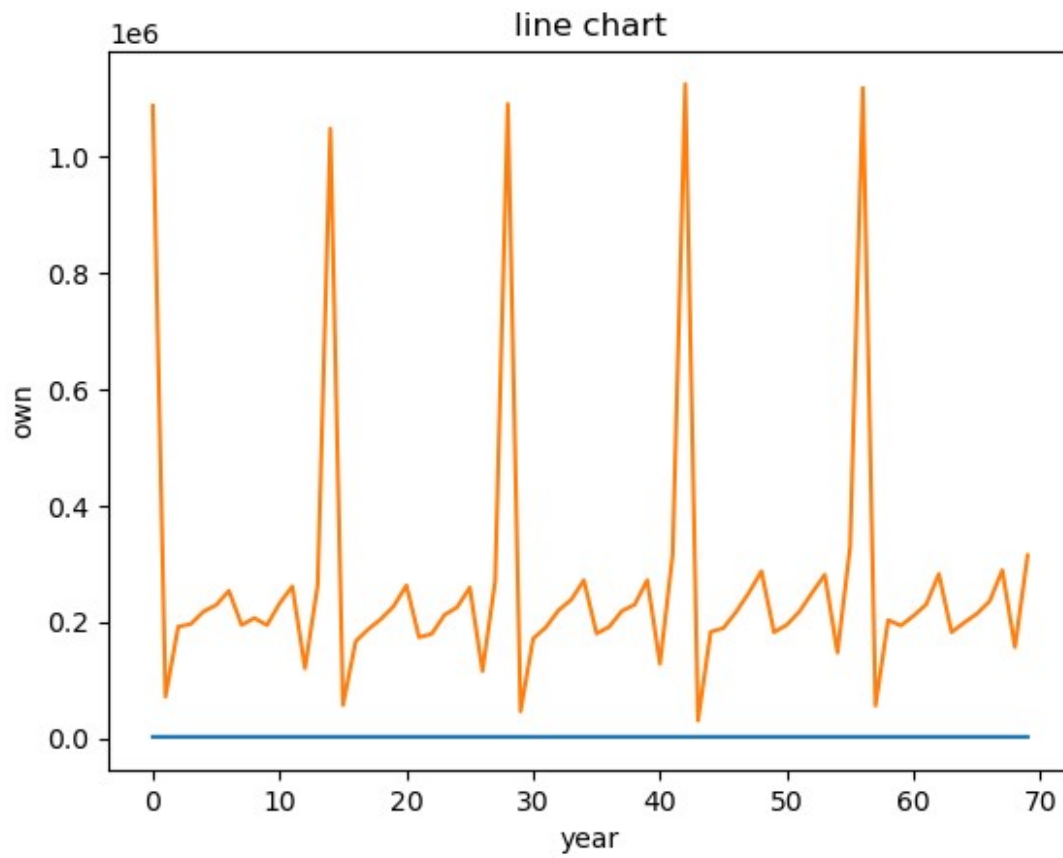
```python
plt.scatter(data['year'],data['own'])
plt.title("scatter plot")
plt.xlabel('year')
plt.ylabel('own')
plt.show()
```
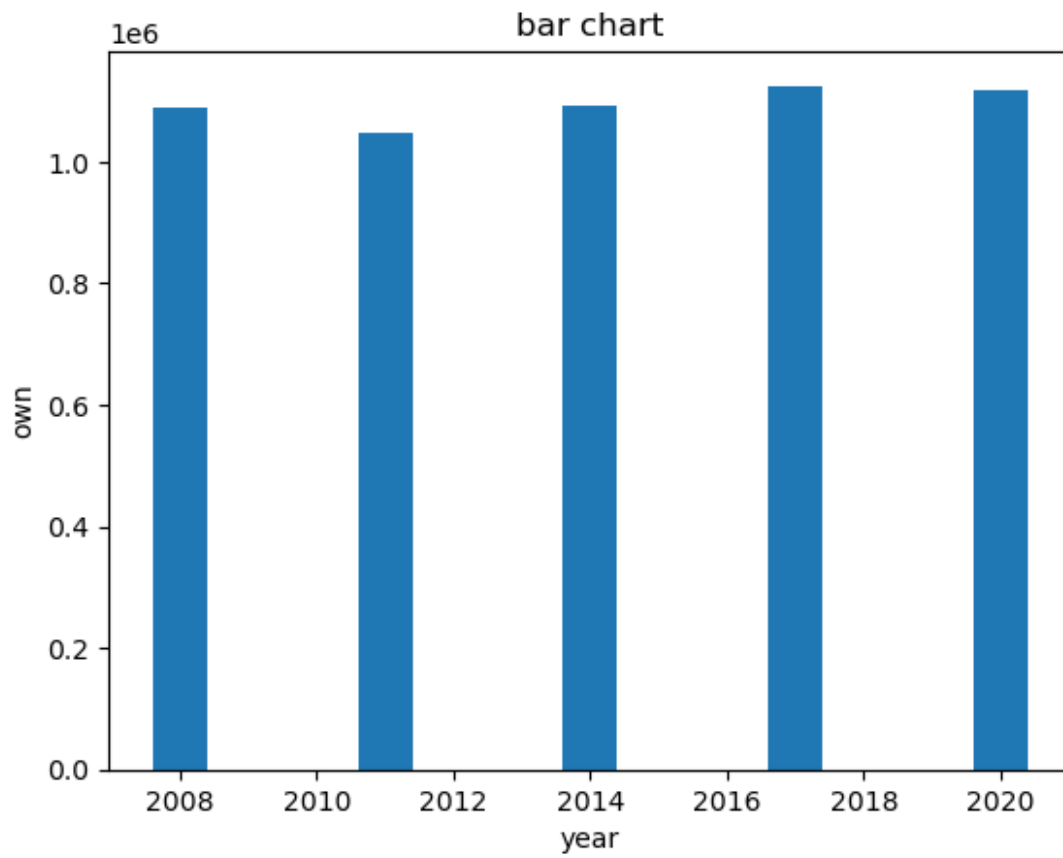
```
plt.plot(data['year'])
plt.plot(data['own'])
plt.title("line chart")
plt.xlabel('year')
plt.ylabel('own')
plt.show()
```

```
plt.bar(data['year'],data['own'])
plt.title("bar chart")
plt.xlabel('year')
plt.ylabel('own')
plt.show()
```

bar chart

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

histogram