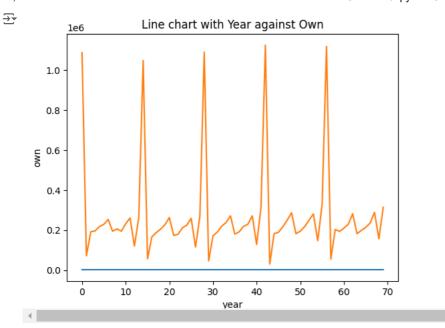
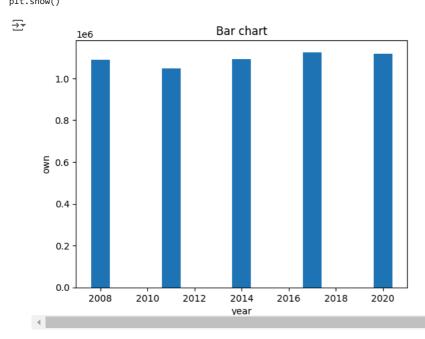
plt.show()

```
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')
data.head()
<del>____</del>
         year tot_hhs
                                  own_wm own_prop own_wm_prop prop_hhs age size income expenditure eqv_income eqv_exp
                                                                                                                                       \blacksquare
                             own
      0 2008
              1560859 1087580
                                                                       100.0 35.9
                                                                                                        42394
                                  574406
                                               69.7
                                                             36.8
                                                                                     27
                                                                                          46704
                                                                                                                     26869
                                                                                                                              25132
                                                                                                                                       ıl.
      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
                312333
      3 2008
                          196203
                                   84171
                                               628
                                                             26.9
                                                                        20.0 34.7
                                                                                     28
                                                                                          31308
                                                                                                        29855
                                                                                                                     18917
                                                                                                                              18266
      4 2008
                312240
                          217657
                                  141318
                                               69.7
                                                             45.3
                                                                        20.0
                                                                             31.5
                                                                                     3.0
                                                                                          49106
                                                                                                        46561
                                                                                                                     26870
                                                                                                                              24672
 Next steps:
              Generate code with data
                                          View recommended plots
                                                                          New interactive sheet
#Scatter plot
plt.scatter(data['year'], data['own'])
plt.title("Scatter Plot")
plt.xlabel('year')
plt.ylabel('own')
plt.show()
\overline{\Rightarrow}
                                         Scatter Plot
              1e6
         1.0
         0.8
       S 0.6
         0.4
         0.2
         0.0
              2008
                         2010
                                   2012
                                              2014
                                                        2016
                                                                  2018
                                                                             2020
                                              year
    4
#line_chart
plt.plot(data['year'])
plt.plot(data['own'])
plt.title("Line chart with Year against Own")
plt.xlabel('year')
plt.ylabel('own')
```



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



```
plt.plot(data['year'])
plt.plot(data['income'])

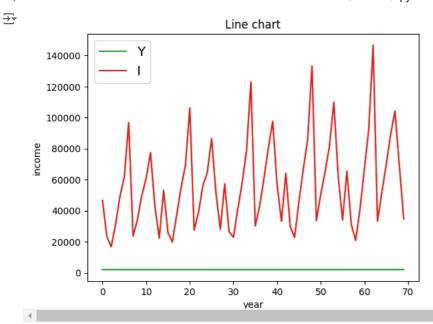
plt.title("Line chart")

plt.xlabel('year')
plt.ylabel('income')

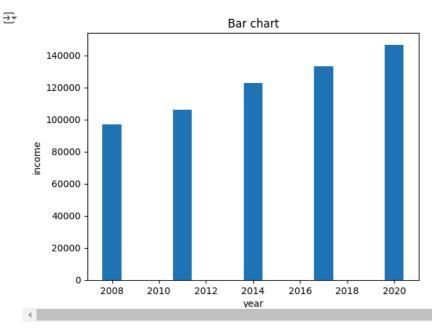
plt.plot(data['year'], label = 'Y')
plt.plot(data['income'], label = 'I')

plt.legend(fontsize = 'x-large', loc = 'upper left')

plt.show()
```

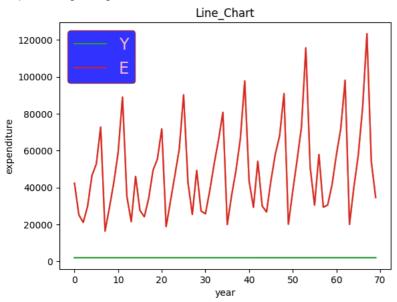


```
plt.bar(data['year'], data['income'])
plt.title("Bar chart")
plt.xlabel('year')
plt.ylabel('income')
plt.show()
```



₹

<matplotlib.legend.Legend at 0x7ba4874b1180>



```
plt.plot(data['age'])
plt.plot(data['income'])

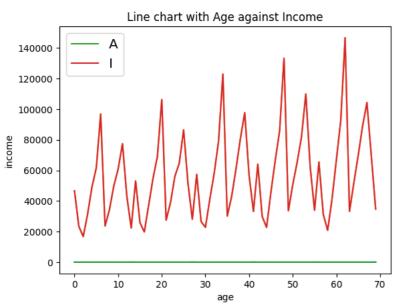
plt.title("Line chart with Age against Income")

plt.xlabel('age')
plt.ylabel('income')

plt.plot(data['age'], label='A')
plt.plot(data['income'], label = 'I')

plt.legend(fontsize = 'x-large', loc = 'upper left')

plt.show()
```



```
plt.bar(data['age'], data['income'])
plt.title("Age v/s Income")

plt.xlabel('age')
plt.ylabel('income')

plt.show()
```

