	year	tot_hhs	own	own_wm	own_prop	own_wm_prop	prop_hhs	age	size
0	2008	1560859	1087580	574406	69.7	36.8	100.0	35.9	2.7
1	2008	185965	71256	39405	38.3	21.2	11.9	29.9	2.6
2	2008	312376	191470	48424	61.3	15.5	20.0	40.0	2.3
3	2008	312333	196203	84171	62.8	26.9	20.0	34.7	2.8
4	2008	312240	217657	141318	69.7	45.3	20.0	31.5	3.0
5	2008	312336	229014	147658	73.3	47.3	20.0	35.3	2.6
6	2008	311574	253235	152835	81.3	49.1	20.0	39.3	2.5
7	2008	312761	194358	49448	62.1	15.8	20.0	38.7	2.5
8	2008	311973	206342	86390	66.1	27.7	20.0	36.1	2.7
9	2008	311840	194361	108065	62.3	34.7	20.0	33.0	2.8
4									•

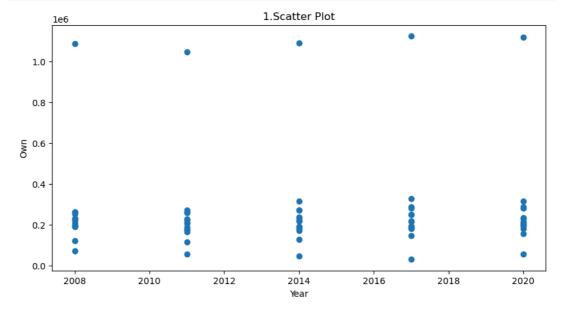
In [16]: # Print the column names to ensure they are correct print(data.columns)

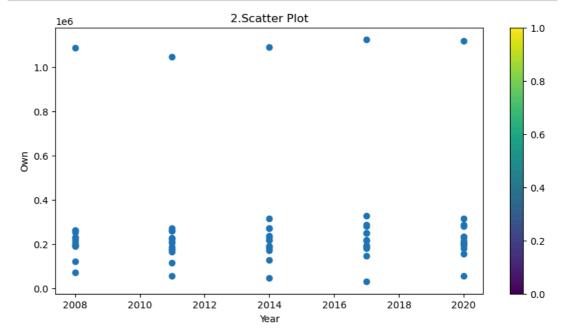
```
In [17]:  # Scatter Plot
    plt.figure(figsize=(10, 5))
    plt.scatter(data['year'], data['own'])

# Adding Title to the Plot
    plt.title("1.Scatter Plot")

# Setting the X and Y Labels
    plt.xlabel('Year')
    plt.ylabel('Own')

# Display the plot
    plt.show()
```

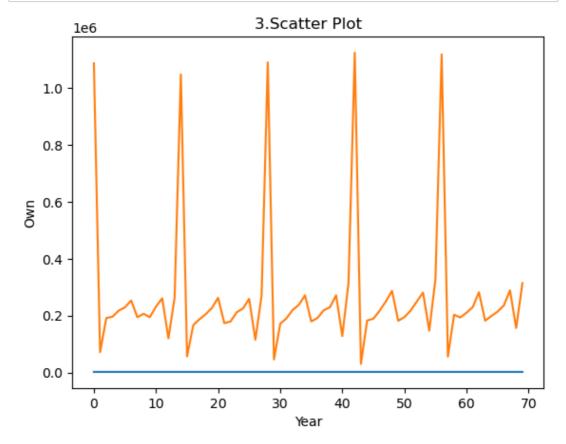




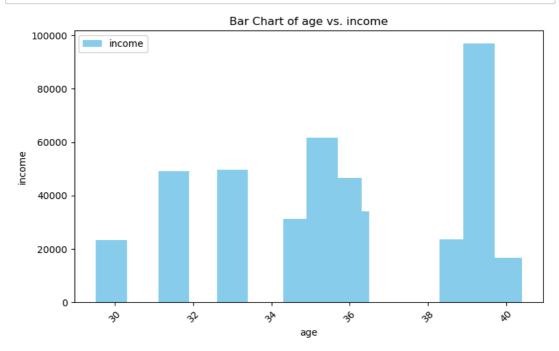
```
In [19]:  # Scatter Plot
    plt.plot (data['year'])
    plt.plot (data['own'])
    # Adding Title to the Plot
    plt.title("3.Scatter Plot")

# Setting the X and Y labels
    plt.xlabel('Year')
    plt.ylabel('Own')

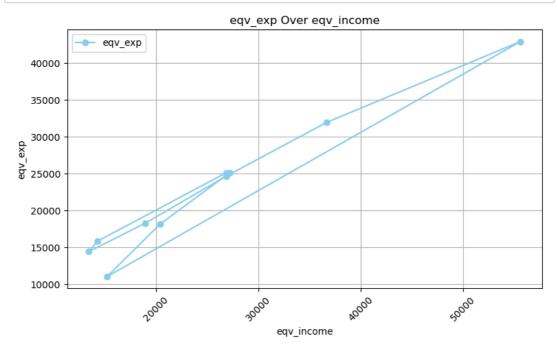
# Display the plot
    plt.show()
```



```
# Reduce the figure size to a reasonable value
In [20]:
             plt.figure(figsize=(8, 5))
             dt=data.head(10)
             # Plotting with corrected column name
             plt.bar(dt['age'], dt['income'], color='skyblue', label='income')
             # bargraph plot
             # Add Labels and title
             plt.xlabel('age')
             plt.ylabel('income')
             plt.title('Bar Chart of age vs. income')
             # Add Legend
             plt.legend()
             # Rotate x-axis labels if necessary
             plt.xticks(rotation=45)
             # Adjust layout to prevent clipping of labels
             plt.tight_layout()
             # Show plot
             plt.show()
```



```
In [21]:
            plt.figure(figsize=(8, 5))
            plt.plot(dt['eqv_income'], dt['eqv_exp'], marker='o', color='skyblue',
            # Add Labels and title
            plt.title('eqv_exp Over eqv_income')
            plt.xlabel('eqv_income')
            plt.ylabel('eqv_exp')
            # Add Legend
            plt.legend()
            # Add gridlines
            plt.grid(True)
            # Rotate x-axis labels for better readability
            plt.xticks(rotation=45)
            # Adjust Layout
            plt.tight_layout()
            # Show plot
            plt.show()
```



```
In []: M

In []: M
```