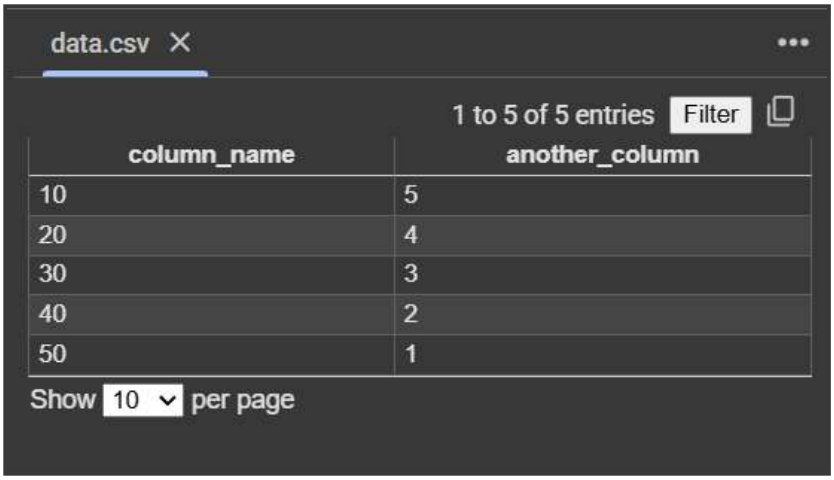
Using the Pandas library, load a CSV file and perform basic data analysis tasks, such as
calculating the average of a selected column. Additionally, use Matplotlib to create
visualizations, including bar charts, scatter plots, and heatmaps, to analyze the data. Provide
insights and observations based on the analysis and visualizations.

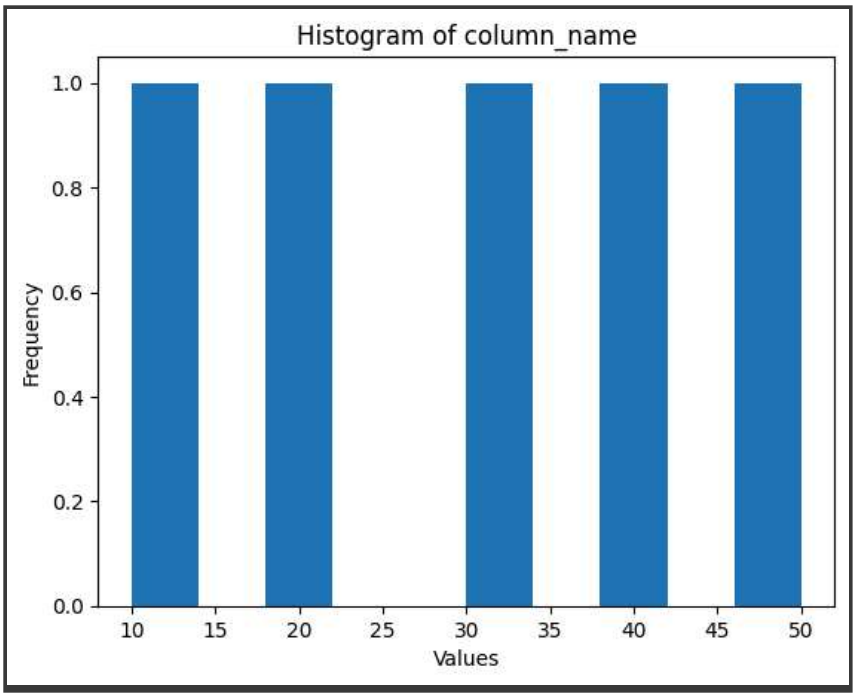
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

data_dict = {
    'column_name': [10, 20, 30, 40, 50],
    'another_column': [5, 4, 3, 2, 1]
}
df = pd.DataFrame(data_dict)
df.to_csv('data.csv', index=False)
print("Sample data.csv file created!")
```

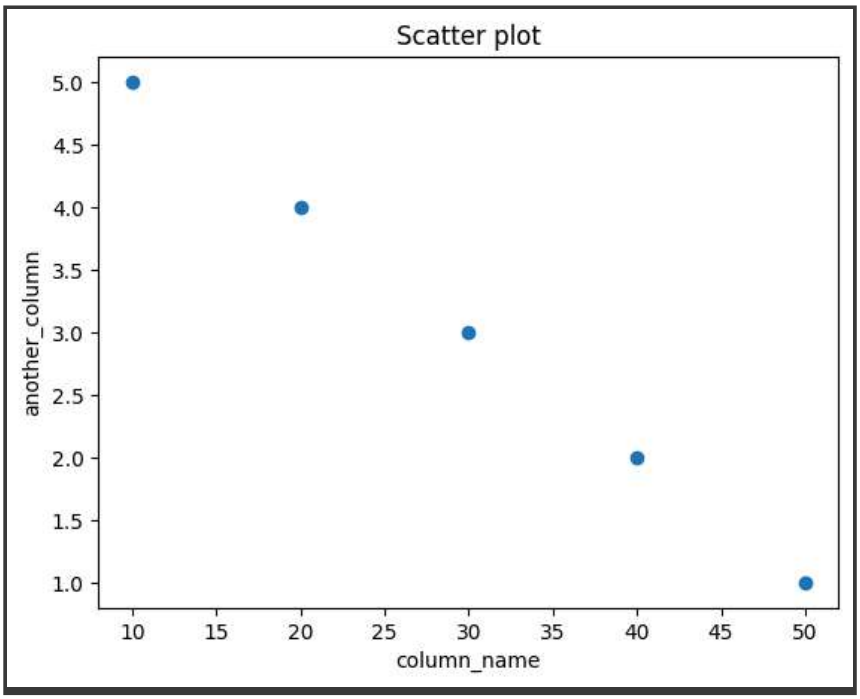
```
Sample data.csv file created!
```




```
First 5 rows:
   column_name  another_column
0           10               5
1           20               4
2           30               3
3           40               2
4           50               1
Average of column_name: 30.0
```




```
plt.scatter(data['column_name'], data['another_column'])
plt.xlabel('column_name')
plt.ylabel('another_column')
plt.title('Scatter plot')
plt.show()
```



```
import seaborn as sns
sns.heatmap(data.corr(), annot=True)
plt.title('Correlation Heatmap')
plt.show()
```