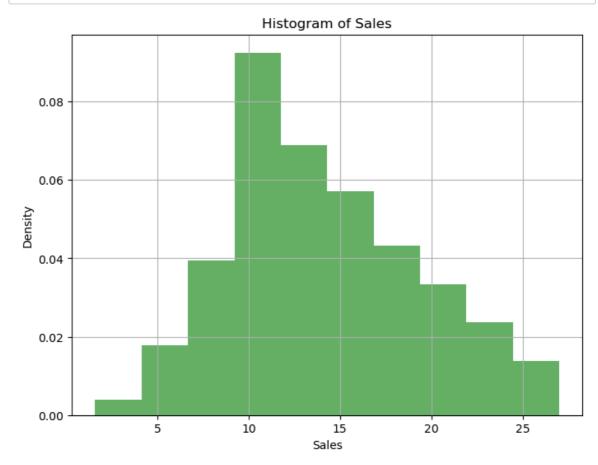
Visualization of continuous data using Histogram

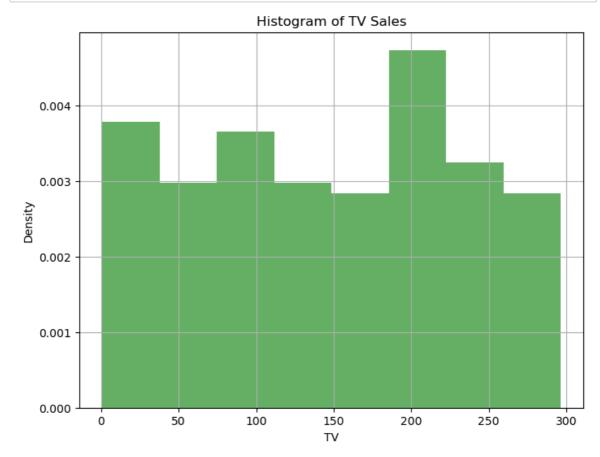
```
In [1]: import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
In [13]: data=pd.read_csv("Advertising.csv")
 In [4]: df = pd.DataFrame(data)
         df.head()
 Out[4]:
            Unnamed: 0
                         TV radio newspaper sales
          0
                    1 230.1
                             37.8
                                       69.2
                                             22.1
          1
                    2 44.5
                            39.3
                                       45.1
                                             10.4
          2
                       17.2 45.9
                    3
                                       69.3
                                             9.3
                    4 151.5
          3
                             41.3
                                       58.5
                                             18.5
                    5 180.8
                             10.8
                                       58.4
                                             12.9
In [10]: df.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 200 entries, 0 to 199
         Data columns (total 5 columns):
                      Non-Null Count Dtype
          #
              Column
              Unnamed: 0 200 non-null
                                          int64
          0
          1
              TV
                         200 non-null
                                          float64
              radio 200 non-null
          2
                                          float64
              newspaper 200 non-null
          3
                                          float64
                                          float64
          4
              sales
                      200 non-null
         dtypes: float64(4), int64(1)
         memory usage: 7.9 KB
In [11]: df.describe()
Out[11]:
```

	Unnamed: 0	TV	radio	newspaper	sales
count	200.000000	200.000000	200.000000	200.000000	200.000000
mean	100.500000	147.042500	23.264000	30.554000	14.022500
std	57.879185	85.854236	14.846809	21.778621	5.217457
min	1.000000	0.700000	0.000000	0.300000	1.600000
25%	50.750000	74.375000	9.975000	12.750000	10.375000
50%	100.500000	149.750000	22.900000	25.750000	12.900000
75%	150.250000	218.825000	36.525000	45.100000	17.400000
max	200.000000	296.400000	49.600000	114.000000	27.000000

```
In [15]: plt.figure(figsize=(8, 6))
    plt.hist(df['sales'], bins=10, density=True, alpha=0.6, color='g')
    plt.title('Histogram of Sales')
    plt.xlabel('Sales')
    plt.ylabel('Density')
    plt.grid(True)
    plt.show()
```



```
In [14]: plt.figure(figsize=(8, 6))
    plt.hist(df['TV'], bins=8, density=True, alpha=0.6, color='g')
    plt.title('Histogram of TV Sales')
    plt.xlabel('TV')
    plt.ylabel('Density')
    plt.grid(True)
    plt.show()
```



```
In [ ]:
```