

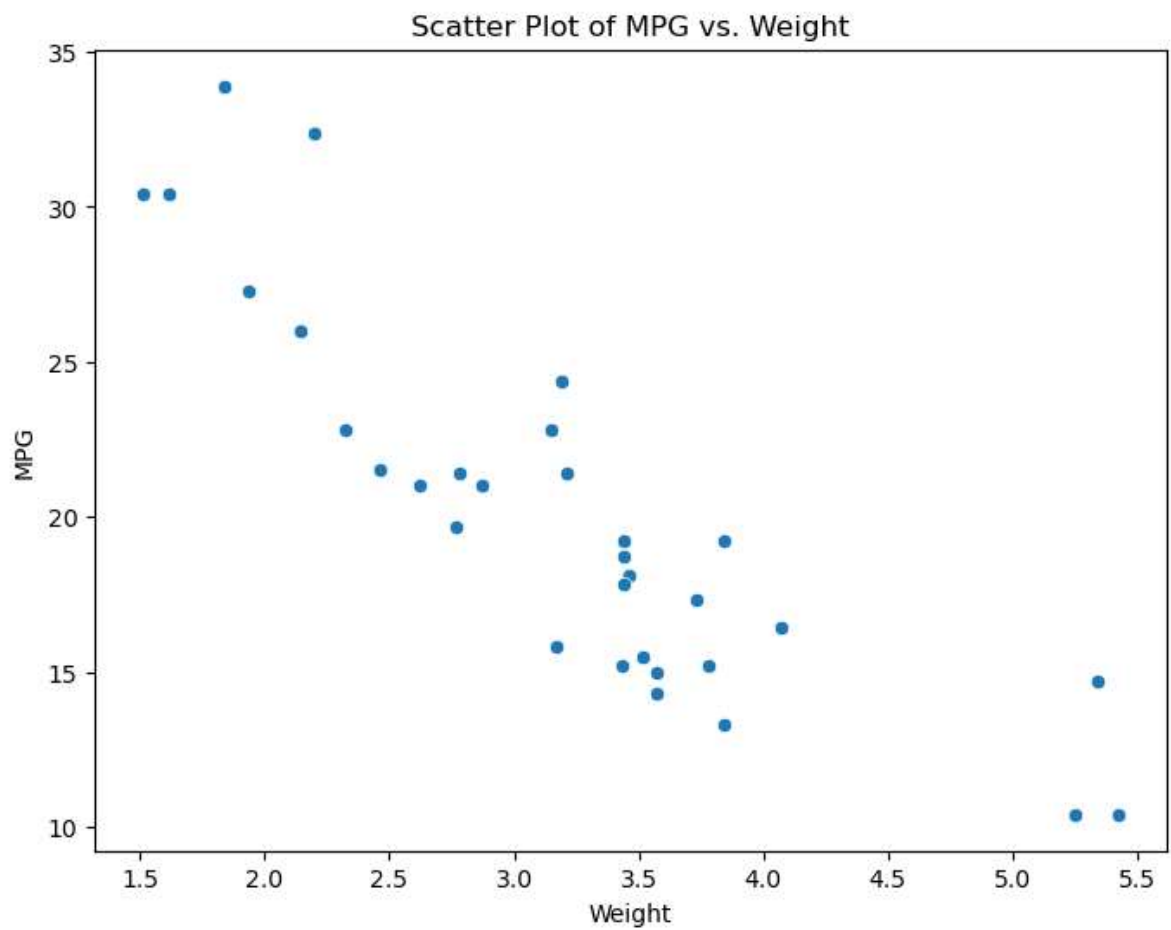
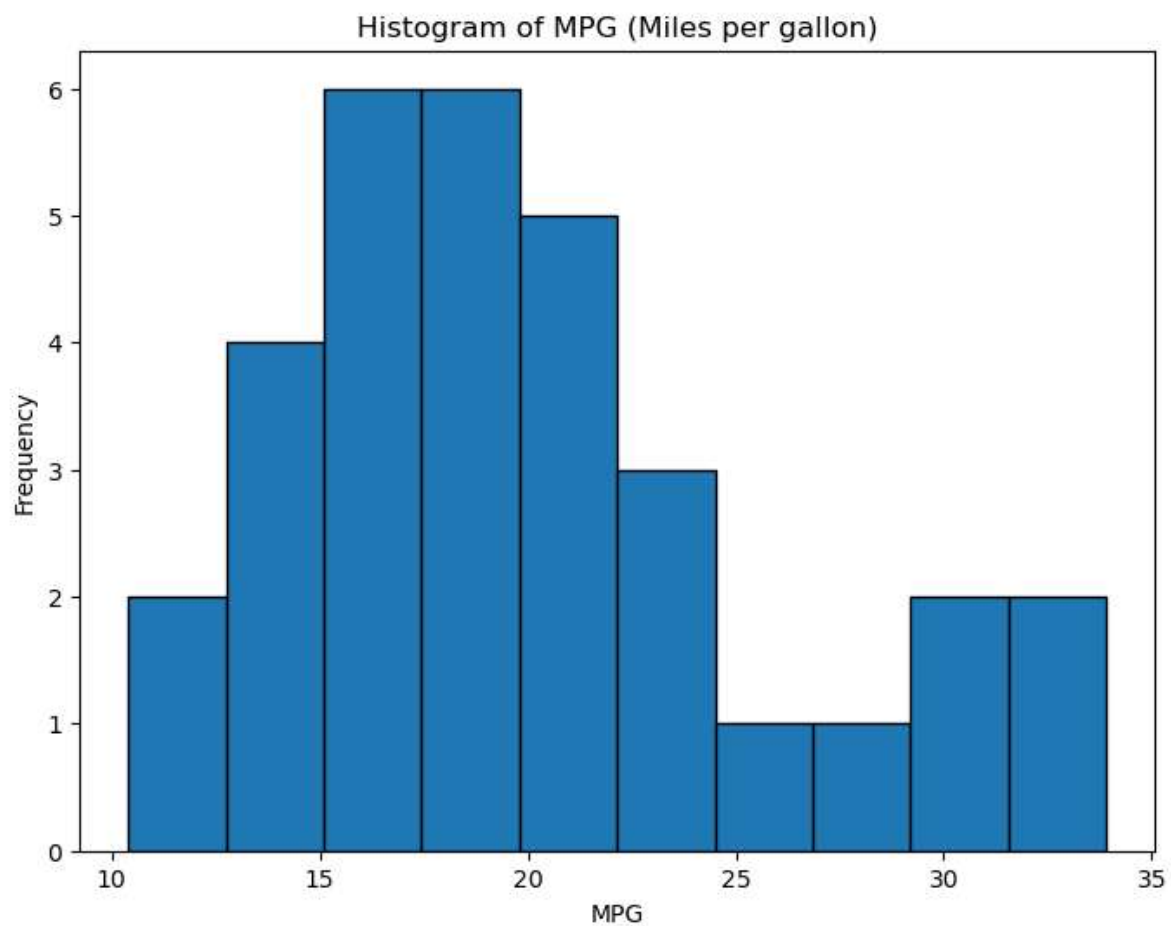

```
In [7]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
df = pd.read_csv('E:/AIML/mtcars.CSV')

plt.figure(figsize=(8, 6))
plt.hist(df['mpg'], bins=10, edgecolor='k')
plt.title('Histogram of MPG (Miles per gallon)')
plt.xlabel('MPG')
plt.ylabel('Frequency')
plt.show()

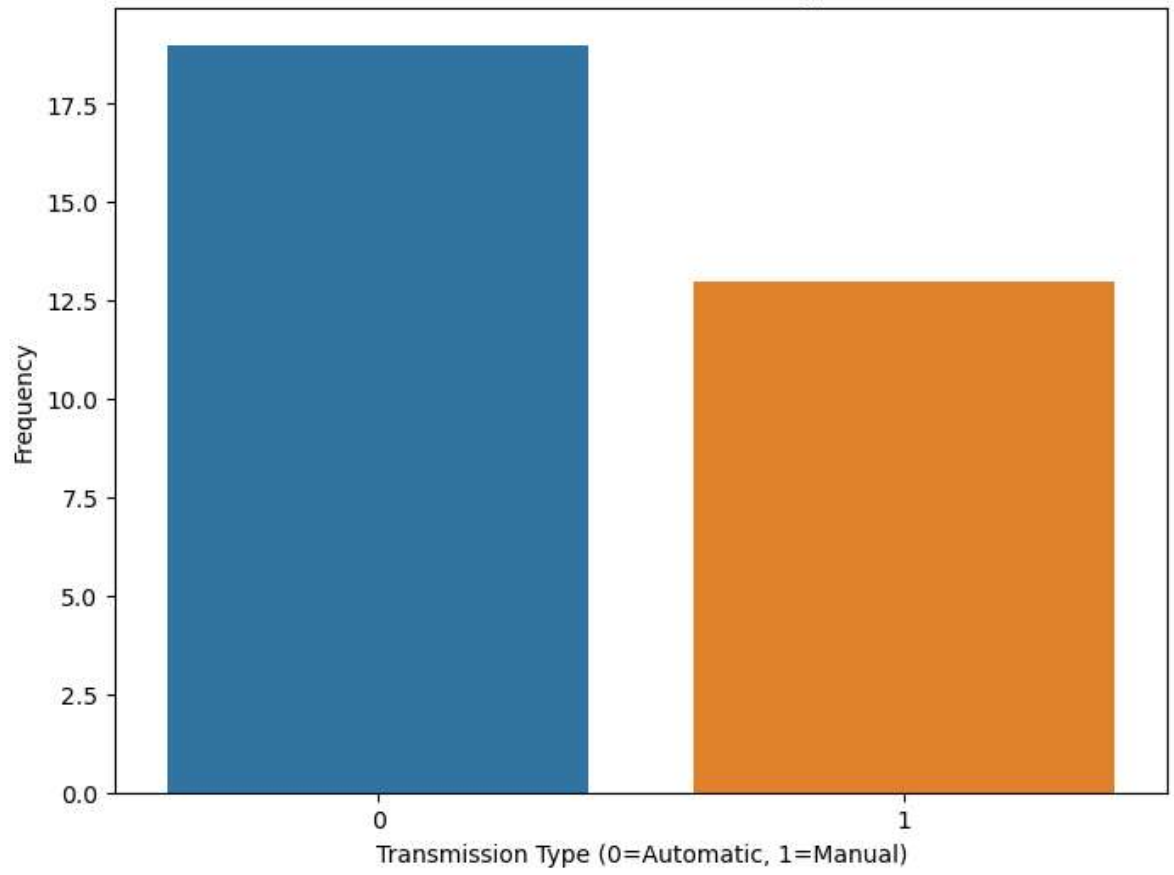
plt.figure(figsize=(8, 6))
sns.scatterplot(data=df, x='wt', y='mpg')
plt.title('Scatter Plot of MPG vs. Weight')
plt.xlabel('Weight')
plt.ylabel('MPG')
plt.show()

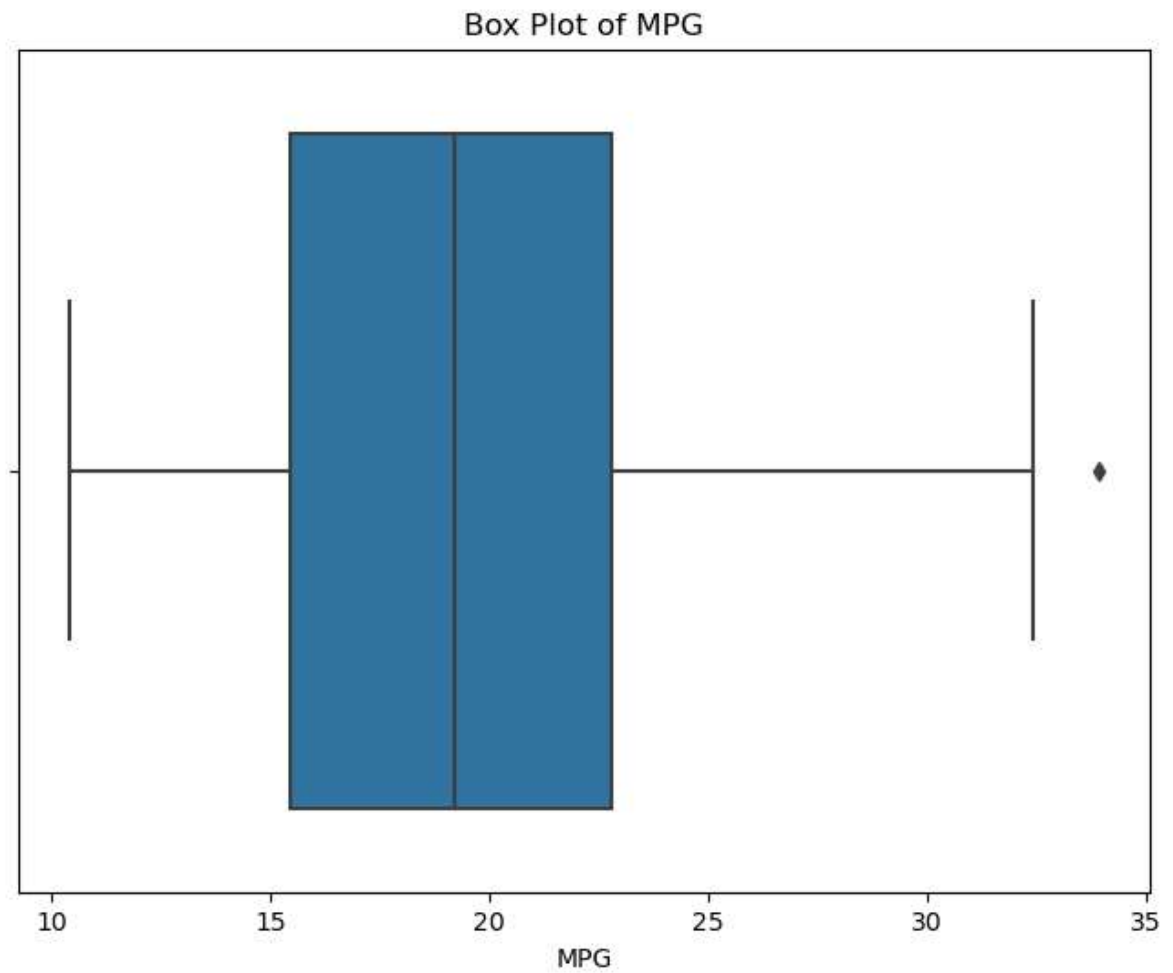
plt.figure(figsize=(8, 6))
sns.countplot(data=df, x='am')
plt.title('Bar Plot of Transmission Type')
plt.xlabel('Transmission Type (0=Automatic, 1=Manual)')
plt.ylabel('Frequency')
plt.show()

plt.figure(figsize=(8, 6))
sns.boxplot(data=df, x='mpg')
plt.title('Box Plot of MPG')
plt.xlabel('MPG')
plt.show()
```



Bar Plot of Transmission Type





In [6]: `import pandas as pd`

```
df = pd.read_csv('E:/AIML/tejas 34.CSV')
df['Count'] = df.groupby('Book_Type')['id'].transform('count')
print(df)
```

	Book_Name	Book_Type	id	Count
0	Book1	Maths	1	2
1	Book2	Physics	1	2
2	Book3	Computer	1	2
3	Book4	Science	1	2
4	Book5	Maths	1	2
5	Book6	Physics	1	2
6	Book7	Computer	1	2
7	Book8	Science	1	2

In []: