Assignment 5 – Data Visualization

Problem Statement:

You work in XYZ Corporation as a Data Analyst. Your corporation has told you to visualize the mtcars.csv dataset with various plots.

Tasks To Be Performed:

1. Plot the area chart for the columns 'am' and 'carb':

- a. Set the 'am' on the x-axis
- b. Set the 'carb' on the y-axis
- c. Provide the x-axis label as Transmission
- d. Provide the y-axis label as Number of carburetors
- e. Provide the title as Transmission vs Number of carburetors

```
In [1]:  import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         %matplotlib inline
         import seaborn as sns

         df = pd.read_csv(r"csv files\cars-5.csv")
         df.head()
```
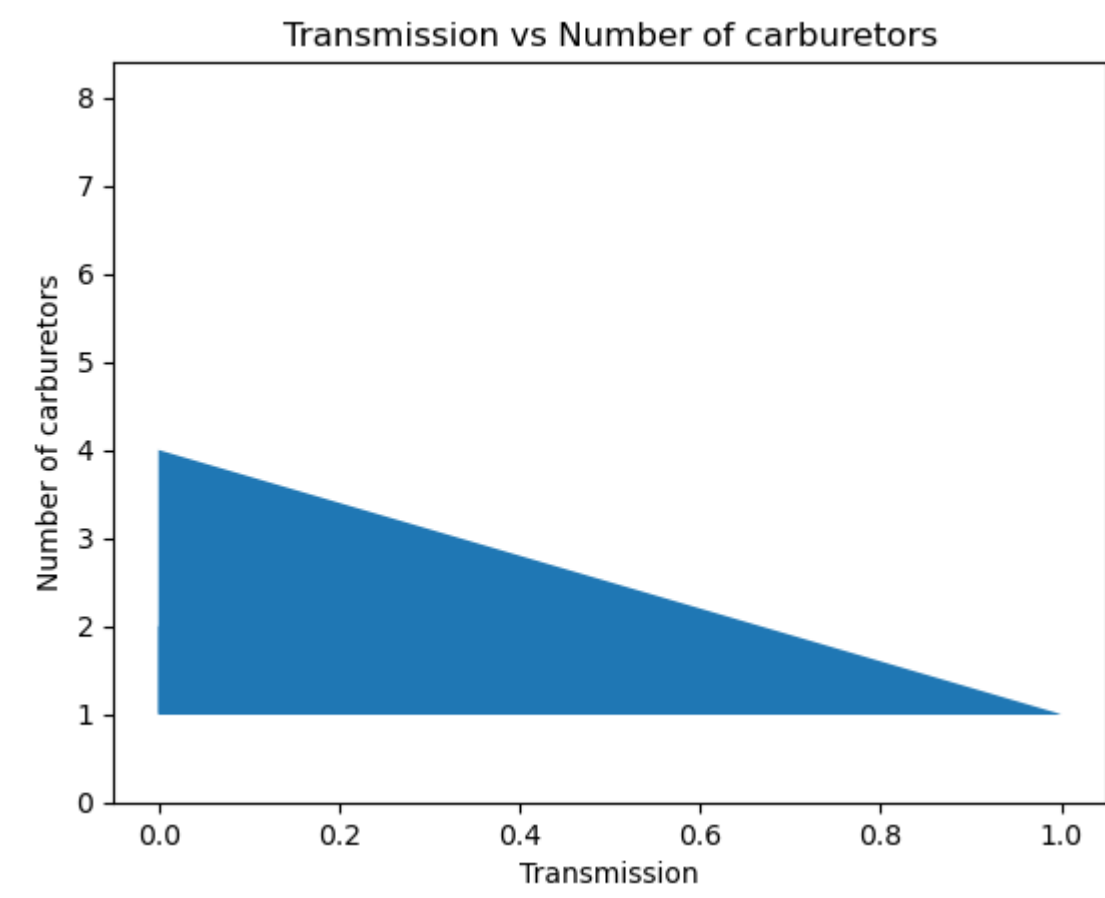
Out[1]:

	model	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
0	Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
1	Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
2	Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
3	Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
4	Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2

```
In [3]:  plt.stackplot(df['am'], df['carb'])
         plt.xlabel('Transmission')
         plt.ylabel('Number of carburetors')
         plt.title('Transmission vs Number of carburetors')
         plt.show()
```

Transmission vs Number of carburetors

In [ ]: