

# Assignment 2 – 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. Generate a bar plot graph for the columns `carbs` and `gear`:
- a. Map the `carbs` onto the x-axis
  - b. Map the `gear` onto the y-axis
  - c. Provide the x-axis label as Number of carburetors
  - d. Provide the y-axis label as Number of forward gears
  - e. Set the title as carbs vs gear

In [1]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns

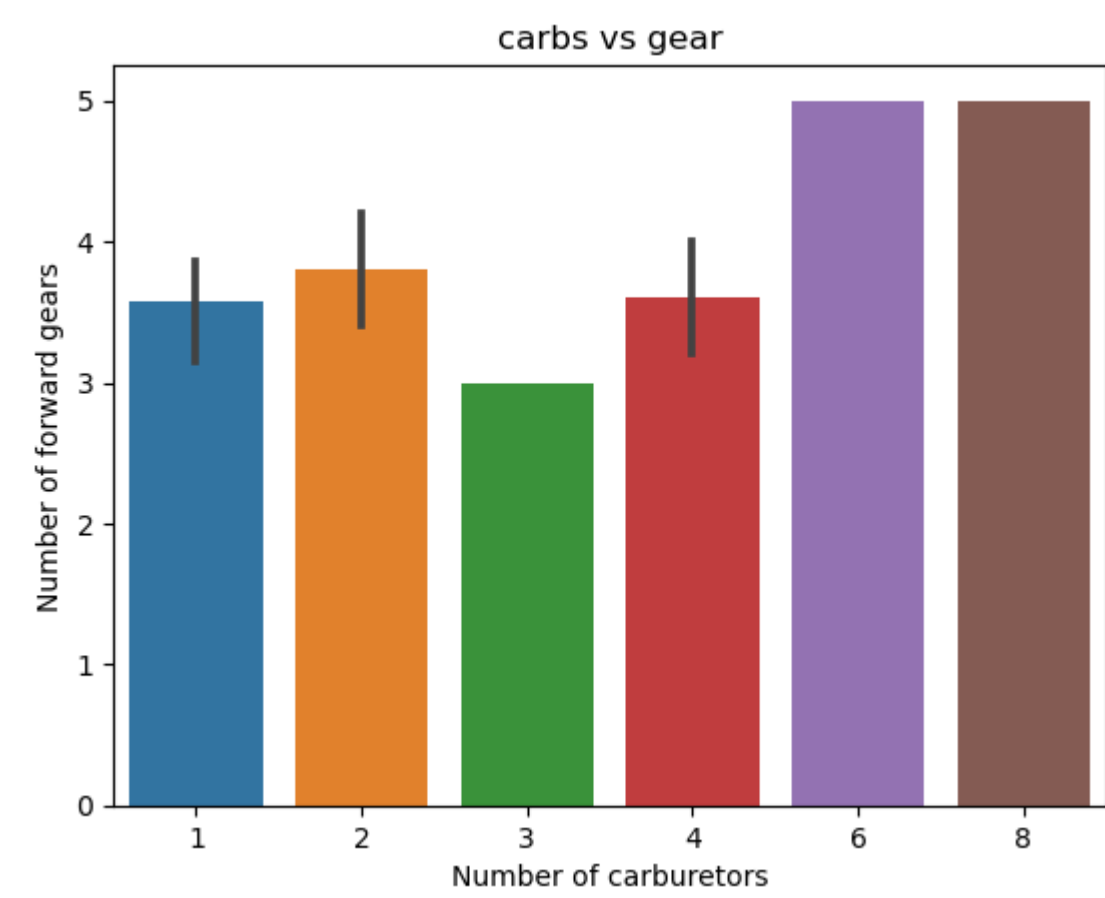
df = pd.read_csv(r"csv files\cars-2.csv")
df.head()
```

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]:

```
sns.barplot(x=df['carb'], y=df['gear'])
plt.xlabel('Number of carburetors')
plt.ylabel('Number of forward gears')
plt.title('carbs vs gear')
plt.show()
```



In [ ]: