The Cars Dataset Analysis

Importing Data and relavant Python Libraries

In [ ]:
```
import pandas as pd
```

In [ ]:
```
data = pd.read_csv(r"C:\Users\hp\Downloads\2. Cars Data1.csv")
data
```

Data Exploration

In [ ]:
```
data.info()
```

No. of rows and columns in the dataset

In [ ]:
```
data.shape
```

Data Analysis

Q1: Find all null values in the dataset. If there is a null value, fill it with mean

In [ ]:
```
data.isnull().sum()
```

In [ ]:
```
data['Cylinders'].fillna(data['Cylinders'].mean(), inplace = True)
data.isnull().sum()
```

Q2: Find the different types of make and the count of each make in the dataset

In [ ]:
```
data ['Make'].value_counts()
```

Q3: Show all the records where origin is asia or europe

In [ ]:
```
data.head()
#data[(data['Origin'] == 'Asia' ) | (data['Origin'] == 'Europe')]
data[data['Origin'].isin(['Asia','Europe'])]
```

Q4: Remove all records where weight >4000

In [ ]:
```
data[~(data['Weight']>4000)]
```

Q5: Apply a function on a column. increase the values of MPG_City column by 3

In [ ]:
```
data['MPG_City'] = data['MPG_City'].apply(lambda x:x+3)
data.head()
```