

```
In [3]: import pandas as pd
import numpy as np
```

## loading the data set

```
In [4]: file_path = r"C:\Users\Dell\Documents\Sujal\DSPS\car_price_dataset.csv"
```

## Read the CSV file into a DataFrame

```
In [5]: df = pd.read_csv(file_path)
```

```
In [6]: total_records = df.shape[0]
print(f"Total number of records in the dataset: {total_records}")
```

Total number of records in the dataset: 10000

## View the first n rows of the DataFrame

```
In [7]: print(df.head(n=5))
```

	Brand	Model	Year	Engine_Size	Fuel_Type	Transmission	Mileage
\							
0	Kia	Rio	2020	4.2	Diesel	Manual	289944
1	Chevrolet	Malibu	2012	2.0	Hybrid	Automatic	5356
2	Mercedes	GLA	2020	4.2	Diesel	Automatic	231440
3	Audi	Q5	2023	2.0	Electric	Manual	160971
4	Volkswagen	Golf	2003	2.6	Hybrid	Semi-Automatic	286618

  

	Doors	Owner_Count	Price
0	3	5	8501
1	2	3	12092
2	4	2	11171
3	2	1	11780
4	3	3	2867

## function creation for finding the ouerliers

In [8]:

```
def outliers(df,col_name):
    Q1 = df[col_name].quantile(0.25)
    Q3 = df[col_name].quantile(0.75)

    IQR = Q3 -Q1

    #outliers are the values which is below the lower_outlier and values above t
    lower_outlier = Q1 - 1.5 *IQR # to find lower outlier
    upper_outlier = Q3 + 1.5 *IQR # to find upper outlier

    outlier = df[(df[col_name] < lower_outlier) | (df[col_name] > upper_out
    return outlier
```

In [9]: outlier\_in\_marks = outliers(df,"Price")

In [10]: print(f"The outlier in marks is\n{outlier\_in\_marks}")

The outlier in marks is

	Brand	Model	Year	Engine_Size	Fuel_Type	Transmission	Mileage \
1012	Ford	Explorer	2020	4.8	Electric	Automatic	19112
1100	Toyota	Corolla	2021	4.7	Electric	Automatic	14924
5698	Honda	CR-V	2023	4.6	Hybrid	Automatic	10046
7221	Audi	A3	2023	5.0	Hybrid	Automatic	12234
8422	Hyundai	Elantra	2019	4.6	Electric	Automatic	1406
9564	Honda	Accord	2022	4.0	Electric	Automatic	14658

	Doors	Owner_Count	Price
1012	4	5	18017
1100	5	3	18301
5698	4	4	17899
7221	5	5	18255
8422	5	3	17871
9564	4	2	17906

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