Pandas function in dataset

import library

In [1]:
```
import pandas as pd
import numpy as np
```

import the csv dataset

In [2]:
```
data= pd.read_csv(r"C:\Users\user\Downloads\fiat500_VehicleSelection_Dataset.c
data
```

Out[2]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	l
0	1.0	lounge	51.0	882.0	25000.0	1.0	44.907242	8.6115598
1	2.0	pop	51.0	1186.0	32500.0	1.0	45.666359	12.241889
2	3.0	sport	74.0	4658.0	142228.0	1.0	45.503300	11.417
3	4.0	lounge	51.0	2739.0	160000.0	1.0	40.633171	17.634609
4	5.0	pop	73.0	3074.0	106880.0	1.0	41.903221	12.495650
...	...	...	...	...	...	...	...	
1544	NaN	NaN	NaN	NaN	NaN	NaN	NaN	len
1545	NaN	NaN	NaN	NaN	NaN	NaN	NaN	con
1546	NaN	NaN	NaN	NaN	NaN	NaN	NaN	Null valu
1547	NaN	NaN	NaN	NaN	NaN	NaN	NaN	f
1548	NaN	NaN	NaN	NaN	NaN	NaN	NaN	sea

1549 rows × 11 columns

To display the last part of the file

In [3]:
```
data.tail()
```

Out[3]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price	Ur
1544	NaN	NaN	NaN	NaN	NaN	NaN	NaN	length	5	
1545	NaN	NaN	NaN	NaN	NaN	NaN	NaN	concat	lonprice	
1546	NaN	NaN	NaN	NaN	NaN	NaN	NaN	Null values	NO	
1547	NaN	NaN	NaN	NaN	NaN	NaN	NaN	find	1	
1548	NaN	NaN	NaN	NaN	NaN	NaN	NaN	search	1	

To display the top part of the file

In [4]:
```
data.head()
```

Out[4]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon
0	1.0	lounge	51.0	882.0	25000.0	1.0	44.907242	8.611559868
1	2.0	pop	51.0	1186.0	32500.0	1.0	45.666359	12.24188995
2	3.0	sport	74.0	4658.0	142228.0	1.0	45.503300	11.41784
3	4.0	lounge	51.0	2739.0	160000.0	1.0	40.633171	17.63460922
4	5.0	pop	73.0	3074.0	106880.0	1.0	41.903221	12.49565029

To display the empty values

In [5]:
```
data.isna()
```

Out[5]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price	Un
0	False	False	False	False	False	False	False	False	False	
1	False	False	False	False	False	False	False	False	False	
2	False	False	False	False	False	False	False	False	False	
3	False	False	False	False	False	False	False	False	False	
4	False	False	False	False	False	False	False	False	False	
...	...	...	...	...	...	...	...	...	...	
1544	True	True	True	True	True	True	True	False	False	
1545	True	True	True	True	True	True	True	False	False	
1546	True	True	True	True	True	True	True	False	False	
1547	True	True	True	True	True	True	True	False	False	
1548	True	True	True	True	True	True	True	False	False	

1549 rows × 11 columns

To display the shape aas rows and columns

In [6]:
```
data.shape
```

Out[6]:
```
(1549, 11)
```

To Fill the empty value with default value

In [10]:
```
data.dropna()
```

Out[10]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price	Unnamed: 9	Unna

To display the total rows and columns

In [8]:
```
data.size
```

Out[8]:
```
17039
```

To display the mathematical function

In [9]:
```
data.describe()
```

Out[9]:

	ID	engine_power	age_in_days	km	previous_owners	lat	l
count	1538.000000	1538.000000	1538.000000	1538.000000	1538.000000	1538.000000	
mean	769.500000	51.904421	1650.980494	53396.011704	1.123537	43.541361	
std	444.126671	3.988023	1289.522278	40046.830723	0.416423	2.133518	
min	1.000000	51.000000	366.000000	1232.000000	1.000000	36.855839	
25%	385.250000	51.000000	670.000000	20006.250000	1.000000	41.802990	
50%	769.500000	51.000000	1035.000000	39031.000000	1.000000	44.394096	
75%	1153.750000	51.000000	2616.000000	79667.750000	1.000000	45.467960	
max	1538.000000	77.000000	4658.000000	235000.000000	4.000000	46.795612	

In [ ]:
```
```