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

In [2]:
```
import pandas as pd
```

In [10]:
```
data=pd.read_csv(r"C:\Users\user\Downloads\fiat500_VehicleSelection_Dataset (1
data
```

Out[10]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	
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	12.241885
2	3.0	sport	74.0	4658.0	142228.0	1.0	45.503300	11.41
3	4.0	lounge	51.0	2739.0	160000.0	1.0	40.633171	17.634605
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	cor
1546	NaN	NaN	NaN	NaN	NaN	NaN	NaN	Null val
1547	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
1548	NaN	NaN	NaN	NaN	NaN	NaN	NaN	sea

1549 rows × 11 columns

```
1.head
```

In [11]:
```
data.head()
```

Out[11]:

	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

In [25]:
```
2.tail
```

```
  File "<ipython-input-25-99642d7f1d9f>", line 1
    2.tail
      ^
SyntaxError: invalid syntax
```

```
data.tail()
```

```
3.describe
```

In [14]:
```
data.describe()
```

Out[14]:

	ID	engine_power	age_in_days	km	previous_owners	lat
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

```
4.shape
```

In [15]:
```
print(np.shape(data))
```

```
(1549, 11)
```

```
5.size
```

In [28]:
```
print(np.size(data))
```

```
17039
```

```
6.find missing values
```

In [18]:
```
print(data.isnull())
```

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

         lon  price  Unnamed: 9  Unnamed: 10
0     False  False        True         True
1     False  False        True         True
2     False  False        True         True
3     False  False        True         True
4     False  False        True         True
...     ...    ...         ...          ...
1544  False  False        True         True
1545  False  False        True         True
1546  False  False        True         True
1547  False  False        True         True
1548  False  False        True         True

[1549 rows x 11 columns]
```

```
7.fill
```

In [20]:
```
data.fillna(value=0)
```

Out[20]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lo
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	0.0	0	0.0	0.0	0.0	0.0	0.000000	leng
1545	0.0	0	0.0	0.0	0.0	0.0	0.000000	conc
1546	0.0	0	0.0	0.0	0.0	0.0	0.000000	Null valu
1547	0.0	0	0.0	0.0	0.0	0.0	0.000000	fi
1548	0.0	0	0.0	0.0	0.0	0.0	0.000000	sear

1549 rows × 11 columns

```
8.drop
```

In [23]:
```
data.dropna()
```

Out[23]:

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

In [ ]:
```

```