

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

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

```
In [4]: data=pd.read_csv("/home/placement/Downloads/fiat500.csv")
```

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

```
Out[5]:
```

	ID	engine_power	age_in_days	km	previous_owners	lat	lon	price
<b>count</b>	1538.000000	1538.000000	1538.000000	1538.000000	1538.000000	1538.000000	1538.000000	1538.000000
<b>mean</b>	769.500000	51.904421	1650.980494	53396.011704	1.123537	43.541361	11.563428	8576.003901
<b>std</b>	444.126671	3.988023	1289.522278	40046.830723	0.416423	2.133518	2.328190	1939.958641
<b>min</b>	1.000000	51.000000	366.000000	1232.000000	1.000000	36.855839	7.245400	2500.000000
<b>25%</b>	385.250000	51.000000	670.000000	20006.250000	1.000000	41.802990	9.505090	7122.500000
<b>50%</b>	769.500000	51.000000	1035.000000	39031.000000	1.000000	44.394096	11.869260	9000.000000
<b>75%</b>	1153.750000	51.000000	2616.000000	79667.750000	1.000000	45.467960	12.769040	10000.000000
<b>max</b>	1538.000000	77.000000	4658.000000	235000.000000	4.000000	46.795612	18.365520	11100.000000

```
In [6]: data.head()
```

```
Out[6]:
```

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
<b>0</b>	1	lounge	51	882	25000	1	44.907242	8.611560	8900
<b>1</b>	2	pop	51	1186	32500	1	45.666359	12.241890	8800
<b>2</b>	3	sport	74	4658	142228	1	45.503300	11.417840	4200
<b>3</b>	4	lounge	51	2739	160000	1	40.633171	17.634609	6000
<b>4</b>	5	pop	73	3074	106880	1	41.903221	12.495650	5700

In [7]: `data.tail()`

Out[7]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
1533	1534	sport	51	3712	115280	1	45.069679	7.70492	5200
1534	1535	lounge	74	3835	112000	1	45.845692	8.66687	4600
1535	1536	pop	51	2223	60457	1	45.481541	9.41348	7500
1536	1537	lounge	51	2557	80750	1	45.000702	7.68227	5990
1537	1538	pop	51	1766	54276	1	40.323410	17.56827	7900

In [8]: `data.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1538 entries, 0 to 1537
Data columns (total 9 columns):
#   Column          Non-Null Count  Dtype
---  -
0   ID               1538 non-null   int64
1   model            1538 non-null   object
2   engine_power     1538 non-null   int64
3   age_in_days      1538 non-null   int64
4   km               1538 non-null   int64
5   previous_owners  1538 non-null   int64
6   lat              1538 non-null   float64
7   lon              1538 non-null   float64
8   price            1538 non-null   int64
dtypes: float64(2), int64(6), object(1)
memory usage: 108.3+ KB
```

In [9]: `list(data)`

Out[9]: ['ID',  
'model',  
'engine\_power',  
'age\_in\_days',  
'km',  
'previous\_owners',  
'lat',  
'lon',  
'price']

In [15]: `data['model']=data['model'].map({'lounge':1,'pop':2,'sport':3})`

In [16]: `data`

Out[16]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
0	1	1	51	882	25000	1	44.907242	8.611560	8900
1	2	2	51	1186	32500	1	45.666359	12.241890	8800
2	3	3	74	4658	142228	1	45.503300	11.417840	4200
3	4	1	51	2739	160000	1	40.633171	17.634609	6000
4	5	2	73	3074	106880	1	41.903221	12.495650	5700
...	...	...	...	...	...	...	...	...	...
1533	1534	3	51	3712	115280	1	45.069679	7.704920	5200
1534	1535	1	74	3835	112000	1	45.845692	8.666870	4600
1535	1536	2	51	2223	60457	1	45.481541	9.413480	7500
1536	1537	1	51	2557	80750	1	45.000702	7.682270	5990
1537	1538	2	51	1766	54276	1	40.323410	17.568270	7900

1538 rows × 9 columns

In [ ]: