In [1]:

```python
import numpy as np
import pandas as pd
```

In [2]:

```python
a=pd.read_csv(r"C:\Users\user\Downloads\fiat500_VehicleSelection_Dataset (1).csv")
```

To print the first 6 rows

In [3]:

```python
a.head(6)
```

Out[3]:

	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	12.2418899
2	3.0	sport	74.0	4658.0	142228.0	1.0	45.503300	11.4178
3	4.0	lounge	51.0	2739.0	160000.0	1.0	40.633171	17.6346092
4	5.0	pop	73.0	3074.0	106880.0	1.0	41.903221	12.4956502
5	6.0	pop	74.0	3623.0	70225.0	1.0	45.000702	7.6822700

To print the last 5 rows

In [4]:

```python
a.tail(5)
```

Out[4]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
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 print the size function

In [5]:

```python
print(np.size(a))
```

17039

To print shape function

In [6]:

```python
print(np.shape(a))
```

(1549, 11)

To print the na function

In [7]:

```python
pd.isna(a)
```

Out[7]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
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
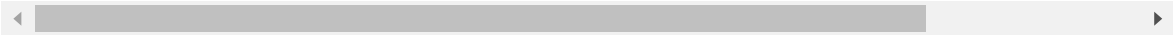
To print the drop function

In [8]:

```python
a.dropna()
```

Out[8]:

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

To print the fill function

In [9]:

```
a.fillna(value=10)
```

Out[9]:

	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	8.6115
1	2.0	pop	51.0	1186.0	32500.0	1.0	45.666359	12.241
2	3.0	sport	74.0	4658.0	142228.0	1.0	45.503300	11
3	4.0	lounge	51.0	2739.0	160000.0	1.0	40.633171	17.634
4	5.0	pop	73.0	3074.0	106880.0	1.0	41.903221	12.495
...	...	...	...	...	...	...	...	
1544	10.0	10	10.0	10.0	10.0	10.0	10.000000	
1545	10.0	10	10.0	10.0	10.0	10.0	10.000000	
1546	10.0	10	10.0	10.0	10.0	10.0	10.000000	Null
1547	10.0	10	10.0	10.0	10.0	10.0	10.000000	
1548	10.0	10	10.0	10.0	10.0	10.0	10.000000	

1549 rows × 11 columns

To describe the function

In [10]:

```
a.describe()
```

Out[10]:

	ID	engine_power	age_in_days	km	previous_owners	la
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	44.394090
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 [11]:

```
conda install matplotlib
```

```
Collecting package metadata (current_repodata.json): ...working... done
Solving environment: ...working... done

# All requested packages already installed.


Note: you may need to restart the kernel to use updated packages.



==> WARNING: A newer version of conda exists. <==
  current version: 4.10.1
  latest version: 23.5.2

Please update conda by running

    $ conda update -n base -c defaults conda
```

In [12]:

```python
import matplotlib.pyplot as pp
```

In [16]:

```python
b=a[["engine_power","km"]]
b
```

Out[16]:

	engine_power	km
0	51.0	25000.0
1	51.0	32500.0
2	74.0	142228.0
3	51.0	160000.0
4	73.0	106880.0
...	...	...
1544	NaN	NaN
1545	NaN	NaN
1546	NaN	NaN
1547	NaN	NaN
1548	NaN	NaN

1549 rows × 2 columns

In [22]:

```
b.plot.line()
```

Out[22]:

```
<AxesSubplot:>
```
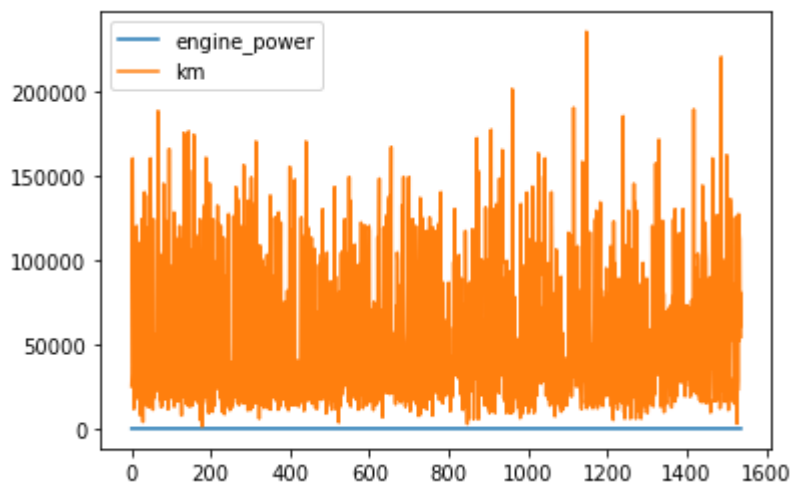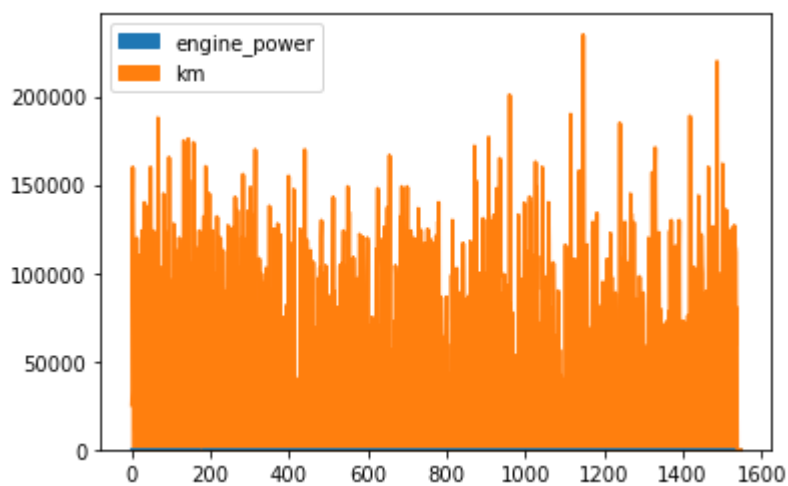

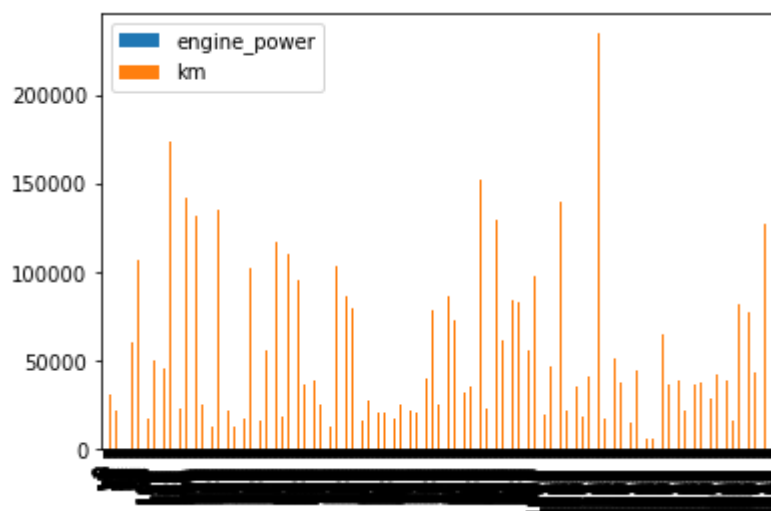In [23]:

```
b.plot.area()
```

Out[23]:

```
<AxesSubplot:>
```

In [25]:

```python
b.plot.bar()
```

Out[25]:

<AxesSubplot:>

In [26]:

```python
b.plot.box()
```
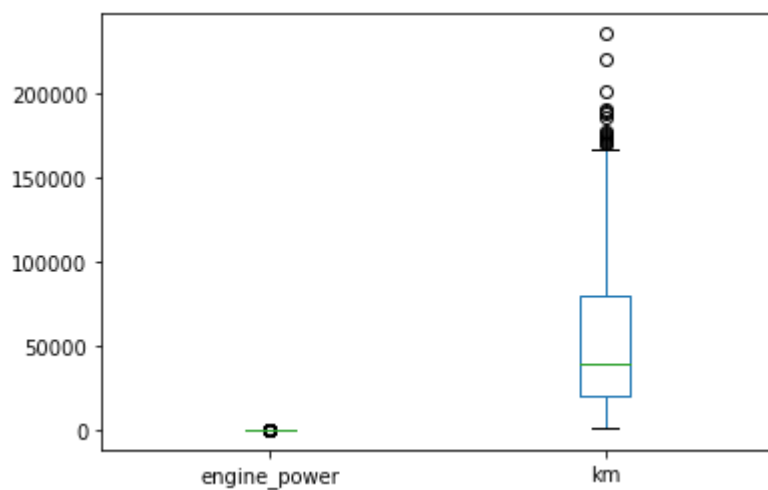
Out[26]:

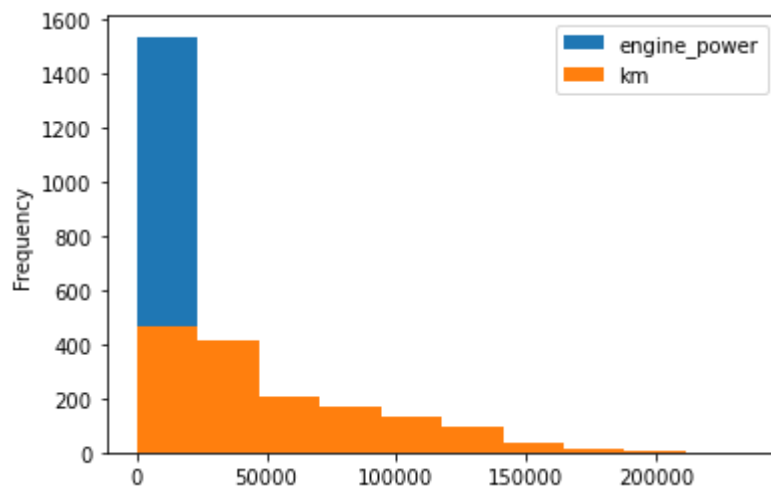<AxesSubplot:>

In [27]:

```python
b.plot.hist()
```
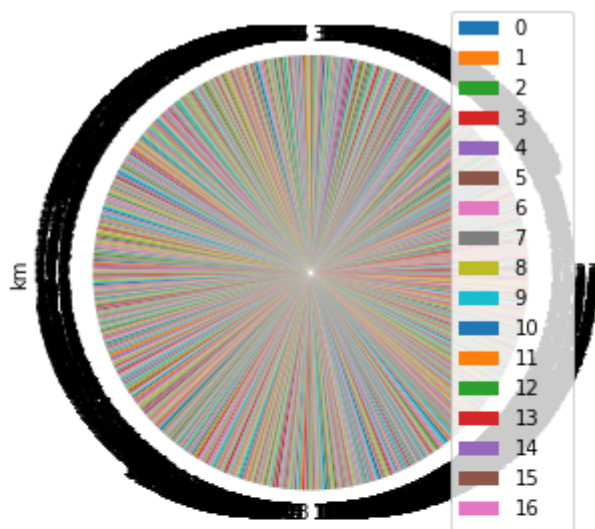
Out[27]:

<AxesSubplot:ylabel='Frequency'>

In [34]:
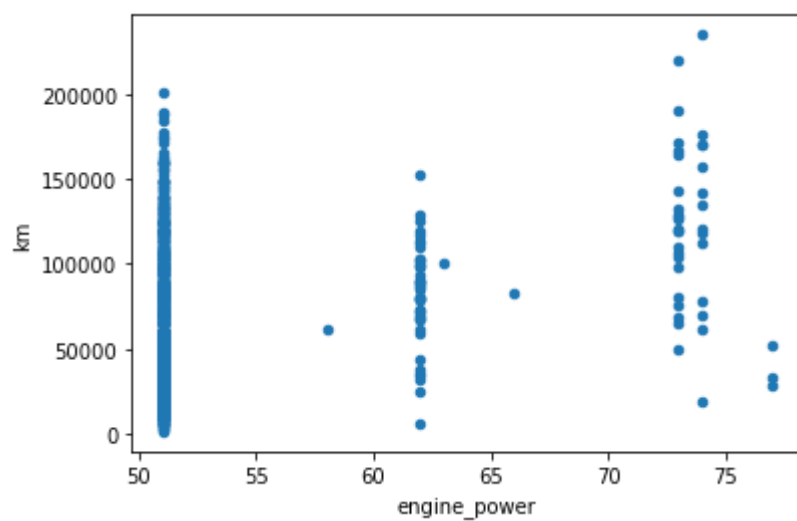
```python
b.plot.pie(y='km',figsize=(5,5))
```

Out[34]:

<AxesSubplot:ylabel='km'>

In [30]:

```python
b.plot.scatter(x='engine_power',y='km')
```

Out[30]:

```
<AxesSubplot:xlabel='engine_power', ylabel='km'>
```


In [ ]: