```
import pandas as pd
In [1]:
          data=pd.read csv("/home/placement/Desktop/EEE(222)/fiat500.csv")
In [2]: data.describe()
Out[2]:
                          ID engine power
                                           age_in_days
                                                                  km previous owners
                                                                                               lat
                                                                                                          lon
                                                                                                                      price
           count 1538.000000
                                            1538.000000
                                                          1538.000000
                                                                          1538.000000 1538.000000
                                                                                                                1538.000000
                               1538.000000
                                                                                                  1538.000000
                   769.500000
                                 51.904421
                                            1650.980494
                                                         53396.011704
                                                                             1.123537
                                                                                         43.541361
                                                                                                     11.563428
                                                                                                                8576.003901
           mean
                   444.126671
                                                                                                      2.328190
             std
                                  3.988023
                                            1289.522278
                                                         40046.830723
                                                                             0.416423
                                                                                         2.133518
                                                                                                                1939.958641
             min
                    1.000000
                                 51.000000
                                             366.000000
                                                          1232.000000
                                                                             1.000000
                                                                                         36.855839
                                                                                                      7.245400
                                                                                                                2500.000000
            25%
                   385.250000
                                 51.000000
                                             670.000000
                                                         20006.250000
                                                                             1.000000
                                                                                         41.802990
                                                                                                      9.505090
                                                                                                                7122.500000
            50%
                   769.500000
                                                                                                     11.869260
                                 51.000000
                                            1035.000000
                                                         39031.000000
                                                                             1.000000
                                                                                         44.394096
                                                                                                                9000.000000
                  1153.750000
                                 51.000000
                                            2616.000000
                                                         79667.750000
                                                                             1.000000
                                                                                         45.467960
                                                                                                     12.769040 10000.000000
            max 1538.000000
                                 77.000000
                                            4658.000000 235000.000000
                                                                             4.000000
                                                                                        46.795612
                                                                                                     18.365520 11100.000000
In [31:
          list(data)
Out[3]: ['ID',
            'model',
            'engine power',
            'age in days',
            'km'.
            'previous owners',
            'lat',
            'lon',
            'price'l
In [4]: data['model']=data['model'].map({'lounge':1,'pop':2,'sport':3})
```

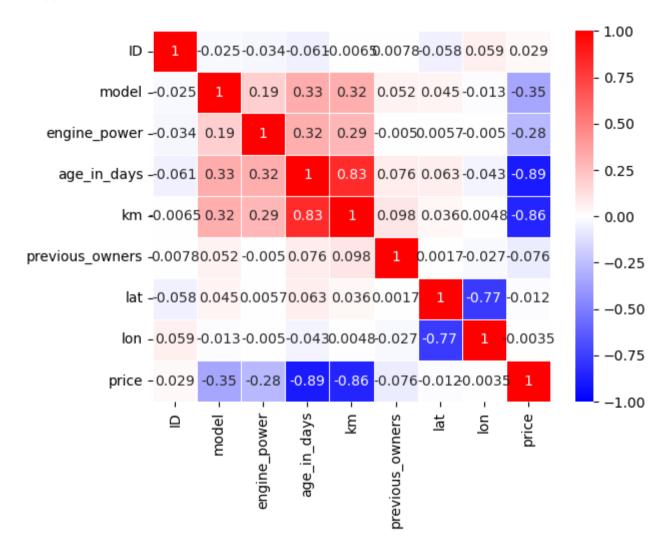
In [6]: cor=data.corr()
cor

Out[6]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
ID	1.000000	-0.024740	-0.034059	-0.060753	-0.006537	0.007803	-0.058207	0.058941	0.028516
model	-0.024740	1.000000	0.189906	0.326508	0.319580	0.052480	0.044901	-0.013200	-0.349885
engine_power	-0.034059	0.189906	1.000000	0.319190	0.285495	-0.005030	0.005721	-0.005032	-0.277235
age_in_days	-0.060753	0.326508	0.319190	1.000000	0.833890	0.075775	0.062982	-0.042667	-0.893328
km	-0.006537	0.319580	0.285495	0.833890	1.000000	0.097539	0.035519	0.004839	-0.859373
previous_owners	0.007803	0.052480	-0.005030	0.075775	0.097539	1.000000	0.001697	-0.026836	-0.076274
lat	-0.058207	0.044901	0.005721	0.062982	0.035519	0.001697	1.000000	-0.766646	-0.011733
lon	0.058941	-0.013200	-0.005032	-0.042667	0.004839	-0.026836	-0.766646	1.000000	-0.003541
price	0.028516	-0.349885	-0.277235	-0.893328	-0.859373	-0.076274	-0.011733	-0.003541	1.000000

```
In [7]: import seaborn as sns
sns.heatmap(cor,vmax=1,vmin=-1,annot=True,linewidths=.5,cmap='bwr')
```

Out[7]: <Axes: >



In [ ]:	