```
In [16]: import pandas as pd
In [17]: data=pd.read_csv('/home/placement/Downloads/fiat500.csv')
```

In [18]: data.head(50)

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	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
0	1	lounge	51	882	25000	1	44.907242	8.611560	8900
1	2	pop	51	1186	32500	1	45.666359	12.241890	8800
2	3	sport	74	4658	142228	1	45.503300	11.417840	4200
3	4	lounge	51	2739	160000	1	40.633171	17.634609	6000
4	5	pop	73	3074	106880	1	41.903221	12.495650	5700
5	6	рор	74	3623	70225	1	45.000702	7.682270	7900
6	7	lounge	51	731	11600	1	44.907242	8.611560	10750
7	8	lounge	51	1521	49076	1	41.903221	12.495650	9190
8	9	sport	73	4049	76000	1	45.548000	11.549470	5600
9	10	sport	51	3653	89000	1	45.438301	10.991700	6000
10	11	pop	51	790	43286	1	40.871429	14.438960	8950
11	12	lounge	51	366	17500	1	45.069679	7.704920	10990
12	13	lounge	51	456	18450	1	45.426571	11.788130	9700
13	14	pop	51	3835	120000	1	40.531590	17.436159	4800
14	15	lounge	51	1035	40500	1	40.911362	14.211200	9300
15	16	lounge	51	1096	28200	1	45.697208	9.845970	9500
16	17	lounge	73	4200	110000	1	41.082352	14.254250	5250
17	18	pop	51	2223	96848	1	43.782372	11.254990	7990
18	19	lounge	51	2861	31000	1	45.069679	7.704920	7300
19	20	lounge	51	425	20030	1	45.354389	11.869260	10500
20	21	lounge	51	397	19037	1	45.707249	11.477600	10500
21	22	lounge	51	1886	110000	1	40.835812	14.504410	6990
22	23	lounge	51	1035	8000	1	44.506088	12.044170	10600
23	24	lounge	51	790	27595	1	45.688259	8.731450	10200

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
24	25	lounge	51	1583	14900	1	45.069679	7.704920	9990
25	26	lounge	51	366	9218	1	45.438110	12.318150	10800
26	27	рор	51	3592	124000	1	40.966179	17.116480	6800
27	28	sport	51	3531	100000	1	40.976452	14.172280	4950
28	29	lounge	51	762	28900	1	45.131672	8.449170	10640
29	30	lounge	51	670	4000	1	41.349751	13.353320	9500
30	31	lounge	62	2769	59216	1	43.782372	11.254990	6990
31	32	lounge	51	4169	99477	2	40.550564	14.225625	5900
32	33	lounge	51	821	21730	2	41.903221	12.495650	10500
33	34	sport	51	3927	140000	2	40.755932	14.690190	5200
34	35	lounge	51	640	32033	2	44.283878	11.888140	9790
35	36	pop	51	3653	138116	2	40.633171	17.634609	5000
36	37	рор	51	852	17000	1	45.505161	8.939100	8990
37	38	pop	51	3013	58527	1	45.688259	8.731450	7200
38	39	sport	51	790	43100	1	45.334080	11.376870	9950
39	40	pop	51	1858	13373	1	41.903221	12.495650	9000
40	41	sport	51	4139	119000	1	45.349319	7.742600	4890
41	42	pop	51	609	28500	1	45.746021	9.049970	10900
42	43	рор	51	1096	83000	1	41.959721	12.798056	7900
43	44	lounge	73	4049	98000	1	38.218128	15.240240	5999
44	45	lounge	51	456	12693	1	45.393600	10.482240	10900
45	46	lounge	51	762	14586	1	42.341969	12.358490	10500
46	47	lounge	51	821	27640	1	41.903221	12.495650	10400
47	48	lounge	51	2039	49000	1	41.903221	12.495650	7500
48	49	sport	51	3684	160000	1	45.405472	10.278290	4900
49	50	sport	51	4596	107000	1	40.845901	14.369270	4300

```
In [19]:
             data.describe()
Out[19]:
                                                                                                     lat
                                                                                                                             price
                                engine_power
                                               age_in_days
                                                                      km previous owners
                                                                                                                 lon
             count 1538.000000
                                  1538.000000
                                               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
                                                                                                           11.563428
                                                                                                                       8576.003901
               std
                     444.126671
                                     3.988023
                                               1289.522278
                                                             40046.830723
                                                                                  0.416423
                                                                                               2.133518
                                                                                                            2.328190
                                                                                                                       1939.958641
                       1.000000
                                    51.000000
                                                366.000000
                                                              1232.000000
                                                                                  1.000000
                                                                                              36.855839
                                                                                                            7.245400
               min
                                                                                                                       2500.000000
              25%
                     385.250000
                                    51.000000
                                                670.000000
                                                             20006.250000
                                                                                  1.000000
                                                                                              41.802990
                                                                                                            9.505090
                                                                                                                       7122.500000
              50%
                     769.500000
                                               1035.000000
                                                                                  1.000000
                                                                                              44.394096
                                                                                                           11.869260
                                    51.000000
                                                             39031.000000
                                                                                                                       9000.000000
              75%
                    1153.750000
                                    51.000000
                                               2616.000000
                                                             79667.750000
                                                                                  1.000000
                                                                                              45.467960
                                                                                                           12.769040
                                                                                                                     10000.000000
              max 1538.000000
                                                                                   4.000000
                                                                                              46.795612
                                    77.000000
                                               4658.000000
                                                            235000.000000
                                                                                                           18.365520
                                                                                                                     11100.000000
In [20]:
            list (data)
Out[20]:
            ['ID',
              'model',
              'engine power',
              'age in days',
             'km',
```

'previous owners',

'lat', 'lon', 'price'] In [21]: data['model']=data['model'].map({'lounge':1,'pop':2,'sport':3})
data

Out[21]:

	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 [22]: corr=data.corr()
corr

Out[22]:

:		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

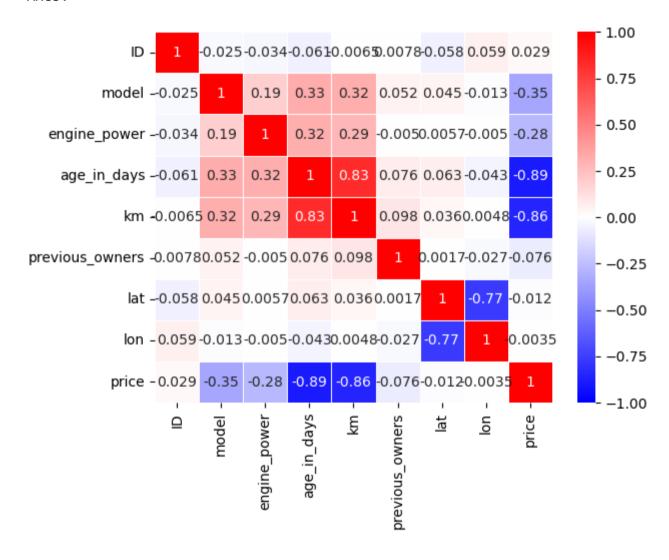
## In [24]: bhargav kedhar

Cell In[24], line 1
bhargav kedhar

SyntaxError: invalid syntax



Out[23]: <Axes: >



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