Team ID	PNT2022TMID25623
Project Name	Project - Car Resale Value Prediction

Splitting Data into Independent and Dependent Variables

```
X = car_dataset.drop(['Car_Name', 'Selling_Price'], axis= 1)
Y = car_dataset['Selling_Price']
print(X)
```

output :

	Year	Present_Price	Kms_Driven	Fuel_Type	Seller_Type	Transmission \
0	2014	5.59	27000	_ 0	_ 0	0
1	2013	9.54	43000	1	0	0
2	2017	9.85	6900	0	0	0
3	2011	4.15	5200	0	0	0
4	2014	6.87	42450	1	0	0
296	2016	11.60	33988	1	0	0
297	2015	5.90	60000	0	0	0
298	2009	11.00	87934	0	0	0
299	2017	12.50	9000	1	0	0
300	2016	5.90	5464	0	0	0

Owner

```
[301 rows x 7 columns]
```

```
print(Y)
output :
0
        3.35
1
        4.75
2
        7.25
3
       2.85
4
       4.60
      . . .
296
      9.50
297
       4.00
298
       3.35
299
       11.50
300
        5.30
Name: Selling_Price, Length: 301, dtype: float64
Spiltting the l'íaining data and l'est Data
X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size = 0.1, random_state = 2
)
print(X train)
output :
     Year Present_Price Kms_Driven Fuel_Type Seller_Type
                                                               Transmission \
204
     2015
                   4.430
                           28282
                                               0
                                                            0
249 2016
                   7.600
                                17000
                                               0
                                                             0
                                                                           0
277 2015
                  13.600
                                21780
                                               0
                                                             0
                                                                           0
194 2008
                  0.787
                               50000
                                              0
244 2013
                  9.400
                                49000
                                               1
                                                             0
                                                                           0
. .
     . . .
                   . . .
                                . . .
                                                                         . . .
                                             . . .
                                                           . . .
                  6.800
75
     2015
                                36000
                                                                          0
                                              0
                                                           0
22 2011
                  8.010
                               50000
                                              0
                                                           0
                                                                          1
72
     2013
                  18.610
                                              0
                                                            0
                                                                          0
                                56001
15
     2016
                  10.790
                                43000
                                               1
                                                             0
                                                                           0
                                                             1
                                                                           0
168 2013
                  0.730
                                12000
                                               0
     Owner
204
249
         0
277
         0
194
         0
244
         0
75
         0
22
         0
72
         0
         0
15
168
         0
```

[270 rows x 7 columns]

Output :

	Year	Present_Price	Kms_Driven	Fuel_Type	Seller_Type	Transmission	\
99	2010	20.450	50024	1	0	0)
161	2014	0.826	23000	0	1	0)
89	2014	6.760	40000	0	0	0)
30	2012	5.980	51439	1	0	0)
232	2015	14.790	12900	0	0	1	
290	2014	6.400	19000	0	0	0)
35	2011	7.740	49998	2	0	0)
7	2015	8.610	33429	1	0	0)
183	2013	0.470	21000	0	1	0)
13	2015	7.710	26000	0	0	0)
269	2015	10.000	18828	0	0	0)
65	2014	6.950	45000	1	0	0)
178	2014	0.520	19000	0	1	1	
258	2015	13.600	25000	0	0	0)
227	2011	4.430	57000	0	0	0)
133	2016	0.950	500	0	1	0)
130	2017	0.870	11000	0	1	0)
156	2017	0.520	15000	0	1	0)
237	2015	13.600	68000	1	0	0)
262	2015	5.800	40023	0	0	0)
112	2014	2.400	7000	0	1	0)
282	2014	14.000	63000	1	0	0)
164	2016	0.540	14000	0	1	0)
275	2016	13.600	30753	0	0	1	
154	2014	0.880	8000	0	1	0)
29	2015	10.380	45000	1	0	0)
141	2016	0.800	20000	0	1	0)
192	2007	0.750	49000	0	1	0)
216	2016	4.430	12500	0	0	0)
3	2011	4.150	5200	0	0	0)
159	2017	0.510	4000	0	1	1	

	Owner
99	0
161	0
89	0
30	0
232	0
290	0
35	0
7	0
183	0
13	0
269	0
65	0
178	0
258	0
227	0
133	0
130	0
156	0
237	0
262	0

```
112
        0
282
         0
164
        0
        0
275
154
        0
29
        0
141
        0
192
        1
216
        0
         0
3
        0
159
print(Y_train)
output :
204
       2.75
249
      5.25
277
    9.70
194
    0.20
    5.95
244
      . . .
75
      3.95
22
      4.40
72
       7.45
      7.75
15
168
       0.42
Name: Selling_Price, Length: 270, dtype: float64
print(Y_test)
output :
99
        9.65
161
        0.45
89
       4.75
30
       3.10
232
       11.45
290
       4.50
35
       2.95
7
       6.50
183
       0.27
       6.10
13
269
       6.70
65
       4.75
178
       0.35
258
       8.40
227
       2.55
133
      0.72
130
       0.75
156
       0.48
237
     11.25
      4.00
262
112
       1.15
282
       8.25
164
       0.45
```

275

10.90

154	0.50
29	7.45
141	0.60
192	0.20
216	2.90
3	2.85
159	0.45

Name: Selling_Price, dtype: float64