***#Importing the libraries***

**import** pandas **as** pd #for dataframes and

**import** numpy **as** np

**from** sklearn **import** linear\_model

***#Reading the CSV***

df**=**pd**.**read\_csv('car\_data.csv')

df

***#To Check different types of properties***

df.head()

df.info()

df.describe()

df.shape

df.isnull()  **“*.sum()“***

***#Checking the distribution categorical data***

print(car\_dataset.Fuel\_Type.value\_counts())

print(car\_dataset.Seller\_Type.value\_counts())

print(car\_dataset.Transmission\_Type.value\_counts())

***#Distribution of data into dependent and target variables***

inputs**=**df**.**drop(['Car\_Name','Owner','Seller\_Type'],axis**=**'columns') #dependent *variable*

target**=**df**.**Selling\_Price #t*arget variable*

inputs

***#Encoding the data from String to numeric***

**from** sklearn.preprocessing **import** LabelEncoder

Numerics**=**LabelEncoder()

inputs['Fuel\_Type\_n']**=**Numerics**.**fit\_transform(inputs['Fuel\_Type'])

inputs['Transmission\_n']**=**Numerics**.**fit\_transform(inputs['Transmission'])

inputs

**Step 6: Dropping the string columns**

inputs\_n**=**inputs**.**drop(['Fuel\_Type','Transmission','Selling\_Price'],axis**=**'columns')

inputs\_n

**Step 7: Implemention of Linear regression & Prediction**

model**=**linear\_model**.**LinearRegression()

model**.**fit(inputs\_n,target)

pred**=**model**.**predict([[2013,9.54,430000,1,1]])

pred