```
In [1]: #Loading Dataset
 In [2]: import pandas as pd
 In [3]: | df = pd.read_csv('train.csv')
         #Showing dataset in short
 In [4]:
 In [5]: df.head()
 Out[5]:
             Id MSSubClass MSZoning LotFrontage LotArea Street Alley LotShape LandContour Utilitie:
          0 1
                                                      Pave NaN
                                                                                 Lvl AllPul
                                RL
                                         65.0
                                                8450
                                                                     Reg
                                                                     Reg
          1 2
                       20
                                RL
                                         80.0
                                                9600
                                                                                     AllPul
                                                      Pave NaN
                                                                                 Lvl
          2 3
                       60
                                         68.0
                                               11250
                                                      Pave NaN
                                                                                     AllPul
          3 4
                       70
                                         60.0
                                                                                 Lvl
                                                                                     AllPul
                                RL
                                                9550
                                                      Pave NaN
                                                                     IR1
          4 5
                                         84.0
                                               14260
                                                      Pave NaN
                                                                                 Lvl AllPul
         5 rows × 81 columns
 In [6]: #Showing dataset in details (With all columns)
 In [7]: pd.options.display.max_columns = None
          df.head()
 Out[7]:
             Id MSSubClass MSZoning LotFrontage LotArea Street Alley LotShape LandContour Utilitie:
          0 1
                       60
                                                8450
                                                      Pave
                                                            NaN
                                                                     Reg
                                                                                     AllPul
          1 2
                       20
                                RL
                                         80.0
                                                9600
                                                      Pave NaN
                                                                                     AllPul
                                                                     Reg
                                                                                 Lvl
          2 3
                                         68.0
                                               11250
                                                      Pave NaN
                                                                                     AllPul
          3 4
                       70
                                         60.0
                                                9550
                                                                                     AllPul
                                RL
                                                      Pave NaN
                                                                     IR1
                                                                                 Lvl
                                                      Pave NaN
                       60
                                         84.0
                                               14260
                                                                                 Lvl AllPul
 In [8]: from sklearn.preprocessing import LabelEncoder
 In [9]: | #Encoding all columns which contains string value using below function applyin
          g LabelEncoder
In [10]: def encode(X, p):
             ldr = LabelEncoder()
              for q in p:
                  encode = ldr.fit_transform(X[q])
                  X[q] = encode
              return X
In [11]: | X = df.drop(['Id', 'Alley', 'PoolQC', 'Fence', 'PoolArea', 'MiscFeature'], axi
          s=1).dropna()
         y = X['SalePrice']
         X = X.drop(['SalePrice'], axis=1)
In [12]: #Encoding using LabelEncoder and the encode function mentioned above
In [13]: X = encode(X, ['MSZoning', 'Street',
                 'LotShape', 'LandContour', 'Utilities', 'LotConfig', 'LandSlope',
                 'Neighborhood', 'Condition1', 'Condition2', 'BldgType', 'HouseStyle',
          'RoofStyle',
                 'RoofMatl', 'Exterior1st', 'Exterior2nd', 'MasVnrType',
                 'ExterQual', 'ExterCond', 'Foundation', 'BsmtQual', 'BsmtCond',
                 'BsmtExposure', 'BsmtFinType1', 'BsmtFinType2', 'Heating', 'HeatingQC',
                 'CentralAir', 'Electrical', 'KitchenQual',
                 'Functional', 'FireplaceQu', 'GarageType',
                 'GarageFinish', 'GarageQual', 'GarageCond',
                 'PavedDrive', 'SaleType',
                 'SaleCondition'])
In [14]: #Splitting Dataset
In [15]: from sklearn.model_selection import train_test_split
In [16]: X train, X test, y train, y test = train test split(X, y, test size=0.1, rando
          m state=42)
In [17]: # Fitting Linear Regression into the dataset
In [18]: from sklearn.linear_model import LinearRegression
In [19]: ln = LinearRegression()
          ln.fit(X_train, y_train)
Out[19]: LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None,
                   normalize=False)
In [20]: # Accuracy
In [21]: | ln.score(X_test, y_test)*100
```

Out[21]: 83.34292191988041