```
#importing the dependencies
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import sklearn.datasets
from sklearn.model selection import train test split
from xgboost import XGBRegressor
from sklearn import metrics
pip install scikit-learn==1.1.3
    Looking in indexes: <a href="https://pypi.org/simple">https://us-python.pkg.dev/colab-wheels/public/simple/</a>
     Requirement already satisfied: scikit-learn==1.1.3 in /usr/local/lib/python3.9/dist-packages (1.1.3)
     Requirement already satisfied: threadpoolctl>=2.0.0 in /usr/local/lib/python3.9/dist-packages (from s
    Requirement already satisfied: numpy>=1.17.3 in /usr/local/lib/python3.9/dist-packages (from scikit-]
     Requirement already satisfied: scipy>=1.3.2 in /usr/local/lib/python3.9/dist-packages (from scikit-l€
     Requirement already satisfied: joblib>=1.0.0 in /usr/local/lib/python3.9/dist-packages (from scikit-]
Double-click (or enter) to edit
Double-click (or enter) to edit
#Importing housing data set
house price dataset = sklearn.datasets.load boston()
    /usr/local/lib/python3.9/dist-packages/sklearn/utils/deprecation.py:87: FutureWarning: Function load_
         The Boston housing prices dataset has an ethical problem. You can refer to
         the documentation of this function for further details.
         The scikit-learn maintainers therefore strongly discourage the use of this
         dataset unless the purpose of the code is to study and educate about
         ethical issues in data science and machine learning.
         In this special case, you can fetch the dataset from the original
         source::
             import pandas as pd
             import numpy as np
             data url = "http://lib.stat.cmu.edu/datasets/boston"
             raw df = pd.read_csv(data_url, sep="\s+", skiprows=22, header=None)
             data = np.hstack([raw_df.values[::2, :], raw_df.values[1::2, :2]])
             target = raw df.values[1::2, 2]
         Alternative datasets include the California housing dataset (i.e.
         :func:`~sklearn.datasets.fetch_california_housing`) and the Ames housing
         dataset. You can load the datasets as follows::
             from sklearn.datasets import fetch_california_housing
             housing = fetch california housing()
```

for the California housing dataset and::

```
from sklearn.datasets import fetch_openml
housing = fetch_openml(name="house_prices", as_frame=True)
```

for the Ames housing dataset.
warnings.warn(msg, category=FutureWarning)

print(house_price_dataset)

```
[2.7310e-02, 0.0000e+00, 7.0700e+00, ..., 1.7800e+01, 3.9690e+02,
9.1400e+00],
[2.7290e-02, 0.0000e+00, 7.0700e+00, ..., 1.7800e+01, 3.9283e+02,
4.0300e+00],
[6.0760e-02, 0.0000e+00, 1.1930e+01, ..., 2.1000e+01, 3.9690e+02,
5.6400e+00],
[1.0959e-01, 0.0000e+00, 1.1930e+01, ..., 2.1000e+01, 3.9345e+02,
6.4800e+00],
[4.7410e-02, 0.0000e+00, 1.1930e+01, ..., 2.1000e+01, 3.9690e+02,
7.8800e+00]]), 'target': array([24., 21.6, 34.7, 33.4, 36.2, 28.7, 22.9, 27.1, 16.5, 18.9
18.9, 21.7, 20.4, 18.2, 19.9, 23.1, 17.5, 20.2, 18.2, 13.6, 19.6,
15.2, 14.5, 15.6, 13.9, 16.6, 14.8, 18.4, 21. , 12.7, 14.5, 13.2,
13.1, 13.5, 18.9, 20., 21., 24.7, 30.8, 34.9, 26.6, 25.3, 24.7,
21.2, 19.3, 20. , 16.6, 14.4, 19.4, 19.7, 20.5, 25. , 23.4, 18.9,
35.4, 24.7, 31.6, 23.3, 19.6, 18.7, 16., 22.2, 25., 33., 23.5,
19.4, 22. , 17.4, 20.9, 24.2, 21.7, 22.8, 23.4, 24.1, 21.4, 20. ,
20.8, 21.2, 20.3, 28., 23.9, 24.8, 22.9, 23.9, 26.6, 22.5, 22.2,
23.6, 28.7, 22.6, 22. , 22.9, 25. , 20.6, 28.4, 21.4, 38.7, 43.8,
33.2, 27.5, 26.5, 18.6, 19.3, 20.1, 19.5, 19.5, 20.4, 19.8, 19.4,
21.7, 22.8, 18.8, 18.7, 18.5, 18.3, 21.2, 19.2, 20.4, 19.3, 22.
20.3, 20.5, 17.3, 18.8, 21.4, 15.7, 16.2, 18. , 14.3, 19.2, 19.6,
23. , 18.4, 15.6, 18.1, 17.4, 17.1, 13.3, 17.8, 14. , 14.4, 13.4,
15.6, 11.8, 13.8, 15.6, 14.6, 17.8, 15.4, 21.5, 19.6, 15.3, 19.4,
17. , 15.6, 13.1, 41.3, 24.3, 23.3, 27. , 50. , 50. , 50. , 22.7,
25., 50., 23.8, 23.8, 22.3, 17.4, 19.1, 23.1, 23.6, 22.6, 29.4,
23.2, 24.6, 29.9, 37.2, 39.8, 36.2, 37.9, 32.5, 26.4, 29.6, 50.
32., 29.8, 34.9, 37., 30.5, 36.4, 31.1, 29.1, 50., 33.3, 30.3,
34.6, 34.9, 32.9, 24.1, 42.3, 48.5, 50., 22.6, 24.4, 22.5, 24.4,
20., 21.7, 19.3, 22.4, 28.1, 23.7, 25., 23.3, 28.7, 21.5, 23.,
26.7, 21.7, 27.5, 30.1, 44.8, 50., 37.6, 31.6, 46.7, 31.5, 24.3,
31.7, 41.7, 48.3, 29. , 24. , 25.1, 31.5, 23.7, 23.3, 22. , 20.1,
22.2, 23.7, 17.6, 18.5, 24.3, 20.5, 24.5, 26.2, 24.4, 24.8, 29.6,
42.8, 21.9, 20.9, 44., 50., 36., 30.1, 33.8, 43.1, 48.8, 31.,
36.5, 22.8, 30.7, 50., 43.5, 20.7, 21.1, 25.2, 24.4, 35.2, 32.4,
32., 33.2, 33.1, 29.1, 35.1, 45.4, 35.4, 46., 50., 32.2, 22.,
20.1, 23.2, 22.3, 24.8, 28.5, 37.3, 27.9, 23.9, 21.7, 28.6, 27.1,
20.3, 22.5, 29. , 24.8, 22. , 26.4, 33.1, 36.1, 28.4, 33.4, 28.2,
22.8, 20.3, 16.1, 22.1, 19.4, 21.6, 23.8, 16.2, 17.8, 19.8, 23.1,
21. , 23.8, 23.1, 20.4, 18.5, 25. , 24.6, 23. , 22.2, 19.3, 22.6,
19.8, 17.1, 19.4, 22.2, 20.7, 21.1, 19.5, 18.5, 20.6, 19., 18.7,
32.7, 16.5, 23.9, 31.2, 17.5, 17.2, 23.1, 24.5, 26.6, 22.9, 24.1,
18.6, 30.1, 18.2, 20.6, 17.8, 21.7, 22.7, 22.6, 25., 19.9, 20.8,
16.8, 21.9, 27.5, 21.9, 23.1, 50., 50., 50., 50., 50., 13.8,
13.8, 15. , 13.9, 13.3, 13.1, 10.2, 10.4, 10.9, 11.3, 12.3, 8.8,
7.2, 10.5, 7.4, 10.2, 11.5, 15.1, 23.2, 9.7, 13.8, 12.7, 13.1,
12.5, 8.5, 5., 6.3, 5.6, 7.2, 12.1, 8.3, 8.5, 5., 11.9,
27.9, 17.2, 27.5, 15., 17.2, 17.9, 16.3, 7., 7.2, 7.5, 10.4,
8.8, 8.4, 16.7, 14.2, 20.8, 13.4, 11.7, 8.3, 10.2, 10.9, 11.
```

```
15.2, 16.1, 17.8, 14.9, 14.1, 12.7, 13.5, 14.9, 20., 16.4, 17.7, 19.5, 20.2, 21.4, 19.9, 19., 19.1, 19.1, 20.1, 19.9, 19.6, 23.2, 29.8, 13.8, 13.3, 16.7, 12., 14.6, 21.4, 23., 23.7, 25., 21.8, 20.6, 21.2, 19.1, 20.6, 15.2, 7., 8.1, 13.6, 20.1, 21.8, 24.5,
```

#Pandas Data frame

house_price_dataframe = pd.DataFrame(house_price_dataset.data ,columns=house_price_dataset.feature_names)

#Print First 5 rows
house_price_dataframe.head()

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	В
0	0.00632	18.0	2.31	0.0	0.538	6.575	65.2	4.0900	1.0	296.0	15.3	396.90
1	0.02731	0.0	7.07	0.0	0.469	6.421	78.9	4.9671	2.0	242.0	17.8	396.90
2	0.02729	0.0	7.07	0.0	0.469	7.185	61.1	4.9671	2.0	242.0	17.8	392.83
3	0.03237	0.0	2.18	0.0	0.458	6.998	45.8	6.0622	3.0	222.0	18.7	394.63
4	0.06905	0.0	2.18	0.0	0.458	7.147	54.2	6.0622	3.0	222.0	18.7	396.90

#add the target column to the DataFrame (Price of house)
house_price_dataframe['price'] =house_price_dataset.target

house price dataframe.head()

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	В
0	0.00632	18.0	2.31	0.0	0.538	6.575	65.2	4.0900	1.0	296.0	15.3	396.90
1	0.02731	0.0	7.07	0.0	0.469	6.421	78.9	4.9671	2.0	242.0	17.8	396.90
2	0.02729	0.0	7.07	0.0	0.469	7.185	61.1	4.9671	2.0	242.0	17.8	392.83
3	0.03237	0.0	2.18	0.0	0.458	6.998	45.8	6.0622	3.0	222.0	18.7	394.63
4	0.06905	0.0	2.18	0.0	0.458	7.147	54.2	6.0622	3.0	222.0	18.7	396.90

Checking No of rows and columns in the data frame house_price_dataframe.shape

(506, 14)

#Check for missing values
house price dataframe.isnull().sum()

CRIM	0
ZN	0
INDUS	0
CHAS	0
NOX	0
RM	0
AGE	0
DIS	0

RAD 0
TAX 0
PTRATIO 0
B 0
LSTAT 0
price 0
dtype: int64

#statistical measures of the dataset
house_price_dataframe.describe()

	CRIM	ZN	INDUS	CHAS	NOX	RM	
count	506.000000	506.000000	506.000000	506.000000	506.000000	506.000000	506.00
mean	3.613524	11.363636	11.136779	0.069170	0.554695	6.284634	68.57
std	8.601545	23.322453	6.860353	0.253994	0.115878	0.702617	28.14
min	0.006320	0.000000	0.460000	0.000000	0.385000	3.561000	2.90
25%	0.082045	0.000000	5.190000	0.000000	0.449000	5.885500	45.02
50%	0.256510	0.000000	9.690000	0.000000	0.538000	6.208500	77.50
75%	3.677083	12.500000	18.100000	0.000000	0.624000	6.623500	94.07
max	88.976200	100.000000	27.740000	1.000000	0.871000	8.780000	100.00

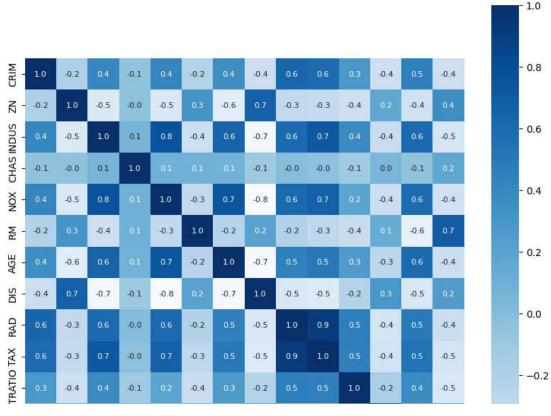


#correlation between data
correlation = house_price_dataframe.corr()

#construction a heatmap

plt.figure(figsize=(10,10))
sns.heatmap(correlation,cbar=True, square =True, fmt='.1f',annot=True, annot_kws={'size':8},cmap='Blues')

<Axes: >



```
# Splitting the data and Target
```

0 _ 0.4 0.4 0.5 0.7 0.4 0.7 0.4 0.5 0.5 0.3 0.7 10

print(x)
print(y)

CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX
0.00632	18.0	2.31	0.0	0.538	6.575	65.2	4.0900	1.0	296.0
0.02731	0.0	7.07	0.0	0.469	6.421	78.9	4.9671	2.0	242.0
0.02729	0.0	7.07	0.0	0.469	7.185	61.1	4.9671	2.0	242.0
0.03237	0.0	2.18	0.0	0.458	6.998	45.8	6.0622	3.0	222.0
0.06905	0.0	2.18	0.0	0.458	7.147	54.2	6.0622	3.0	222.0
0.06263	0.0	11.93	0.0	0.573	6.593	69.1	2.4786	1.0	273.0
0.04527	0.0	11.93	0.0	0.573	6.120	76.7	2.2875	1.0	273.0
0.06076	0.0	11.93	0.0	0.573	6.976	91.0	2.1675	1.0	273.0
0.10959	0.0	11.93	0.0	0.573	6.794	89.3	2.3889	1.0	273.0
0.04741	0.0	11.93	0.0	0.573	6.030	80.8	2.5050	1.0	273.0
	0.00632 0.02731 0.02729 0.03237 0.06905 0.06263 0.04527 0.06076 0.10959	0.00632 18.0 0.02731 0.0 0.02729 0.0 0.03237 0.0 0.06905 0.0 0.06263 0.0 0.04527 0.0 0.06076 0.0 0.10959 0.0	0.00632 18.0 2.31 0.02731 0.0 7.07 0.02729 0.0 7.07 0.03237 0.0 2.18 0.06905 0.0 2.18 0.06263 0.0 11.93 0.04527 0.0 11.93 0.06076 0.0 11.93 0.10959 0.0 11.93	0.00632 18.0 2.31 0.0 0.02731 0.0 7.07 0.0 0.02729 0.0 7.07 0.0 0.03237 0.0 2.18 0.0 0.06905 0.0 2.18 0.0 0.06263 0.0 11.93 0.0 0.04527 0.0 11.93 0.0 0.06076 0.0 11.93 0.0 0.10959 0.0 11.93 0.0	0.00632 18.0 2.31 0.0 0.538 0.02731 0.0 7.07 0.0 0.469 0.02729 0.0 7.07 0.0 0.469 0.03237 0.0 2.18 0.0 0.458 0.06905 0.0 2.18 0.0 0.458 0.06263 0.0 11.93 0.0 0.573 0.064527 0.0 11.93 0.0 0.573 0.06076 0.0 11.93 0.0 0.573 0.10959 0.0 11.93 0.0 0.573	0.00632 18.0 2.31 0.0 0.538 6.575 0.02731 0.0 7.07 0.0 0.469 6.421 0.02729 0.0 7.07 0.0 0.469 7.185 0.03237 0.0 2.18 0.0 0.458 6.998 0.06905 0.0 2.18 0.0 0.458 7.147 0.06263 0.0 11.93 0.0 0.573 6.593 0.04527 0.0 11.93 0.0 0.573 6.120 0.06076 0.0 11.93 0.0 0.573 6.976 0.10959 0.0 11.93 0.0 0.573 6.794	0.00632 18.0 2.31 0.0 0.538 6.575 65.2 0.02731 0.0 7.07 0.0 0.469 6.421 78.9 0.02729 0.0 7.07 0.0 0.469 7.185 61.1 0.03237 0.0 2.18 0.0 0.458 6.998 45.8 0.06905 0.0 2.18 0.0 0.458 7.147 54.2 0.06263 0.0 11.93 0.0 0.573 6.593 69.1 0.04527 0.0 11.93 0.0 0.573 6.120 76.7 0.06076 0.0 11.93 0.0 0.573 6.976 91.0 0.10959 0.0 11.93 0.0 0.573 6.794 89.3	0.00632 18.0 2.31 0.0 0.538 6.575 65.2 4.0900 0.02731 0.0 7.07 0.0 0.469 6.421 78.9 4.9671 0.02729 0.0 7.07 0.0 0.469 7.185 61.1 4.9671 0.03237 0.0 2.18 0.0 0.458 6.998 45.8 6.0622 0.06905 0.0 2.18 0.0 0.458 7.147 54.2 6.0622 0.06263 0.0 11.93 0.0 0.573 6.593 69.1 2.4786 0.04527 0.0 11.93 0.0 0.573 6.120 76.7 2.2875 0.06076 0.0 11.93 0.0 0.573 6.976 91.0 2.1675 0.10959 0.0 11.93 0.0 0.573 6.794 89.3 2.3889	0.00632 18.0 2.31 0.0 0.538 6.575 65.2 4.0900 1.0 0.02731 0.0 7.07 0.0 0.469 6.421 78.9 4.9671 2.0 0.02729 0.0 7.07 0.0 0.469 7.185 61.1 4.9671 2.0 0.03237 0.0 2.18 0.0 0.458 6.998 45.8 6.0622 3.0 0.06905 0.0 2.18 0.0 0.458 7.147 54.2 6.0622 3.0 0.06263 0.0 11.93 0.0 0.573 6.593 69.1 2.4786 1.0 0.04527 0.0 11.93 0.0 0.573 6.120 76.7 2.2875 1.0 0.06076 0.0 11.93 0.0 0.573 6.976 91.0 2.1675 1.0 0.10959 0.0 11.93 0.0 0.573 6.794 89.3 2.3889 1.0

	PIKAITO	В	LSTAT
0	15.3	396.90	4.98
1	17.8	396.90	9.14
2	17.8	392.83	4.03
3	18.7	394.63	2.94
4	18.7	396.90	5.33
501	21.0	391.99	9.67
502	21.0	396.90	9.08
503	21.0	396.90	5.64
504	21.0	393.45	6.48
505	21.0	396.90	7.88

[506 rows x 13 columns]

x= house_price_dataframe.drop(['price'],axis=1)

y= house_price_dataframe['price']

```
0
            24.0
     1
            21.6
     2
            34.7
     3
            33.4
     4
            36.2
     501
            22.4
     502
            20.6
     503
            23.9
     504
            22.0
     505
            11.9
     Name: price, Length: 506, dtype: float64
x_train,x_test,y_train,y_test = train_test_split(x,y,test_size=0.2,random_state=2)
print(x.shape,x_train.shape,x_test.shape)
     (506, 13) (404, 13) (102, 13)
#Training the model
#XGBoost
model=XGBRegressor()
#training the model with x train
model.fit(x_train,y_train)
```

XGBRegressor

XGBRegressor(base_score=None, booster=None, callbacks=None, colsample_bylevel=None, colsample_bynode=None, colsample_bytree=None, early_stopping_rounds=None, enable_categorical=False, eval_metric=None, feature_types=None, gamma=None, gpu_id=None, grow_policy=None, importance_type=None, interaction_constraints=None, learning_rate=None, max_bin=None, max_cat_threshold=None, max_cat_to_onehot=None, max_delta_step=None, max_depth=None, max_leaves=None, min_child_weight=None, missing=nan, monotone_constraints=None, n_estimators=100, n_jobs=None, num_parallel_tree=None, predictor=None, random state=None, ...)

#predtiction on trainning data
#Accuracy for prediction on trainning data
training_data_prediction=model.predict(x_train)

print(training_data_prediction)

```
[23.147501 20.99463
                     20.090284 34.69053
                                         13.903663 13.510157
21.998634 15.1940975 10.899711 22.709627 13.832816
                                                   5.592794
29.810236 49.99096 34.89215
                               20.607384 23.351097 19.23555
32.695698 19.641418 26.991022 8.401829 46.00729
                                                   21.708961
27.062933 19.321356 19.288303 24.809872 22.61626
                                                   31.70493
18.542515
          8.697379 17.395294 23.700663 13.304856 10.492197
12.688369 25.016556 19.67495
                               14.902088 24.193798 25.007143
14.900281 16.995798
                    15.6009035 12.699232 24.51537
                                                   14.999952
50.00104
          17.525454 21.184624 31.998049 15.613355 22.89754
```

```
19.325378 18.717896 23.301125
                               37.222923
                                          30.09486
                                                    33.102703
          49.999332 13.405827
                                5.0280113 16.492886
21.00072
                                                     8.405072
28.64328
          19.499939
                    20.586452
                               45.402164 39.79833
                                                    33,407326
19.83506
          33.406372 25.271482
                               50.001534 12.521657
                                                    17.457413
18.61758
          22.602625 50.002117
                               23.801117 23.317268 23.087355
41.700035 16.119293 31.620516
                               36.069206
                                           7.0022025 20.3827
19.996452
          11.986318 25.023014
                               49.970123 37.881588
                                                    23.123034
41.292133
          17.596548
                    16.305374
                               30.034231 22.860699
                                                    19.810343
17.098848
          18.898268
                    18.96717
                               22.606049
                                          23.141363
                                                    33.183487
15.010934 11.693824 18.78828
                               20.80524
                                          17.99983
                                                    19.68991
50.00332
          17.207317 16.404053 17.520426 14.593481 33.110855
14.508482 43.821655
                    34.939106
                               20.381636 14.655634
                                                     8.094332
11.7662115 11.846876 18.69599
                                6.314154 23.983706 13.084503
19.603905 49.989143
                    22.300608
                               18.930315
                                          31.197134
                                                    20.69645
32.21111
          36.15102
                     14.240763
                               15.698188
                                          49.99381
                                                    20.423601
16.184978 13.409128
                    50.01321
                               31.602146 12.271495
                                                    19.219482
29.794909
          31.536846 22.798779
                               10.189648 24.08648
                                                    23.710463
21.991894
          13.802495
                    28.420696
                               33.181534 13.105958
                                                    18.988266
26.576572
          36.967175
                    30.794083
                               22.77071
                                          10.201246
                                                    22.213818
24.483162
          36.178806
                    23.09194
                               20.097307 19.470194
                                                    10.786644
22.671095
          19.502405 20.109184
                                9.611871 42.799637
                                                    48.794792
                    24.793974 14.110478 21.701134 22.217012
13.097208 20.28583
33.003544 21.11041
                     25.00658
                               19.122992 32.398567 13.605098
15.1145315 23.088867 27.474783 19.364998 26.487135 27.499458
28.697094 21.21718
                     18.703201
                               26.775208 14.010719
                                                    21.692347
18.372562
          43.11582
                     29.081839
                               20.289959
                                          23.680176
                                                    18,308306
17.204844 18.320065 24.393475
                               26.396057
                                         19.094141 13.3019905
22.15311
          22.185797
                     8.516214
                               18.894428 21.792608 19.331121
          7.5006843 22.406403
                               20.004215 14.412416
18,197924
                                                    22.503702
28.53306
          21.591028 13.810223
                               20.497831 21.898977
                                                    23.104464
49.99585
          16.242056
                    30.294561
                               50.001595
                                         17.771557
                                                    19.053703
10.399217
          20.378187
                    16.49973
                               17.183376 16.70228
                                                    19.495337
30.507633 28.98067
                     19.528809
                               23.148346 24.391027
                                                     9.521643
23.886024 49.995125
                    21.167099
                               22.597813 19.965279 13.4072275
19.948694 17.087479
                    12.738807
                               23.00453
                                          15.222122 20.604322
          18.09243
26.207253
                     24.090246
                               14.105
                                          21.689667
                                                    20.08065
25.010437
          27.874954
                    22.92366
                               18.509727
                                          22.190847
                                                    24.004797
14.788686
          19.89675
                     24.39812
                               17.796036 24.556297
                                                    31.970308
17.774675
          23.356768 16.134794
                               13.009915 10.98219
                                                    24.28906
15.56895
          35.209793 19.605724
                               42.301712
                                          8.797891
                                                    24.400295
14.086652 15.408639 17.301126
                               22.127419 23.09363
                                                    44.79579
17.776684
          31.50014
                     22.835577
                               16.888603 23.925127
                                                    12.097476
38.685944
          21.388391 15.98878
                               23.912495
                                         11.909485
                                                    24.960499
7.2018585 24.696215 18.201897
                               22.489008 23.03332
                                                    24.260433
17.101519 17.805563 13.493165 27.105328 13.311978 21.913465
20.00738
          15.405392 16.595737 22.301016 24.708412 21.422579
22.878702 29.606575 21.877811 19.900253 29.605219 23.407152
13.781474
          24.454706 11.897682
                                7.2203646 20.521074
                                                    9.725295
10 20007
          25 10501
                     11 600610 17 /0/727 1/ /0070/
                                                    28 618876
```

```
#R Squared error
score = metrics.r2_score(y_train,training_data_prediction)
print(score) #This value should close to 1
```

0.9999948236320982

```
#Mean Absolute error
score2=metrics.mean absolute error(y train,training data prediction)
```

print(score2)

0.0145848437110976

```
#prediction on test data
test_data_prediction=model.predict(x_test)
score3 = metrics.r2_score(y_test,test_data_prediction)
score4= metrics.mean_absolute_error(y_test,test_data_prediction)
```

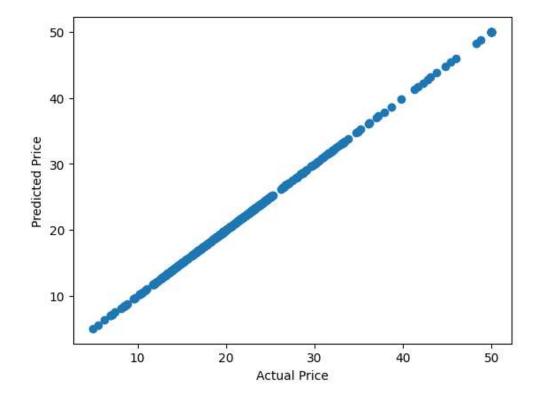
score3

0.8711660369151691

score4

2.2834744154238233

#Visualization plt.scatter(y_train,training_data_prediction) plt.xlabel("Actual Price") plt.ylabel("Predicted Price") plt.show()



✓ 0s completed at 12:54

×