

```
17.5
                       800
                              1000 1200
                                          1400 1600
                                                       1800
                                                               2000 2200
                                         area(sq_ft)
 In [9]: #have a new data file for value prediction
newData = pd.read_excel("D:\\github repo\\PracticeFolder\\new_housing_rates.xlsx")
            newData
 Out[9]:
                 area
              0 1100
              1 1180
              2 1200
                  625
              4 600
              5 800
              6 1200
              7 790
              8 2300
              9 4000
             10 5500
In [17]: newPredict = reg.predict(newData)
            newPredict
Out[17]: array([21.6461039 , 22.45974026, 22.66314935, 16.81513799, 16.56087662, 18.59496753, 22.66314935, 18.49326299, 33.85064935, 51.14042208,
                     66.3961039 ])
In [18]: #adding a column to this newDataframe
            newData['price'] = newPredict
In [27]: %matplotlib inline
            plt.xlabel('area(sq_ft)', fontsize=20)
            plt.ylabel('price(in_lakhs)', fontsize=20)
            plt.scatter(newData.area, newData.price, color='red', marker='+')
plt.plot(newData.area, reg.predict(newData[['area']]), color='purple')
            plt.show()
                 60
             price(in_lakhs)
                 40
                 30
                                                                   5000
                                       area(sq_ft)
 In [ ]: # We can save this predicted file likwise
newData.to_csv('D:\\github repo\\PracticeFolder\\newlyPredictedRates.csv', index=False)
```

brice (: