```
:\Users\xiang\Desktop\Part3>python ScriptRunCMD.py
 .. Importing module scraper...
 ...Importing module apifunction...
 .. Importing module fromstringtoint...
This is a real-time dataset scraped from Zillow:
       name floorSize
15455 Glenoaks Blvd SPACE 408, Sylmar, CA 91342 2,221 sqft
11347 Modena Ln, Northridge, CA 91326 2,513 sqft
10240 Camarillo St APT 102, North Hollywood, C... 1,364 sqft
3206 W 59th St, Los Angeles, CA 90043 1,717 sqft
13691 Gavina Ave UNIT 456, Sylmar, CA 91342 1,800 sqft
                                                                                                                       $399,000
$1,349,000
                                                                                                                          $679,000
                                                                                                                       $1,049,000
                                                                                                                           $230,000
        5158 Veronica St, Los Angeles, CA 90008
11850 N Park Ave, Los Angeles, CA 90066
15050 Sherman Way UNIT 181, Los Angeles, CA 91405
14725 Sherman St, Studio City, CA 91405
194
                                                                                                  1,894 sqft
                                                                                                                       $1,650,000
                                                                                                 1,515 sqft
1,136 sqft
                                                                                                                       $1,645,000
$459,000
195
196
                                                                                                 1,407 sqft
                                                                                                                           $748,000
197
                             12504 Kling St, Studio City, CA 91604 3,211 sqft
                                                                                                                       $1,795,000
198
[177 rows x 3 columns]
```

I saved the dataset as datafromZillow.csv when I did web scraping and API, so the following dataset might be slightly differernt from the real-time one

```
Unnamed: 0
                                                                 13691 Gavina Ave UNIT 456, Sylmar, CA 91342 1, 800 sqft 594 S Mapleton Dr, Los Angeles, CA 90024 56,500 sqft 2825 Elm St, Los Angeles, CA 90065 1,551 sqft 15455 Glenoaks Blvd SPACE 408, Sylmar, CA 91342 2,221 sqft 9131 Burnet Ave UNIT 13, North Hills, CA 91343 1,130 sqft
                                                                                                                                                                                                                                                                                                                            $230,000 34.321620 -118.45085
$165,000,000 34.073182 -118.429019
$929,000 34.098499 -118.232164
$399,000 34.323409 -118.469445
$449,000 34.236181 -118.46945
                                                                                                                                                                                                                                                                            1,605 sqft
1,649 sqft
1,516 sqft
1,580 sqft
4,367 sqft
                                                                                                                                                                                                                                                                                                                                     $998.000 34.051003 -118.244519
$1,249,000 34.048398 -118.464179
$975,000 34.103227 -118.200718
$575,000 34.220060 -118.584807
$3,750,000 34.143535 -118.378891
                                                                4737 1/2 W Elmwood Ave, Los Angeles, CA 90004
11855 Goshen Ave APT 103, Los Angeles, CA 90049
233 S Avenue 50, Los Angeles, CA 90042
20737 Roscoe Blvd UNIT 704, Winnetka, CA 91306
4145 Tujunga Ave, Studio City, CA 91604
[175 rows x 6 columns]
This is the dataset in LA with price per square foot column:
Unnamed: 0
                                                                                                                                                                                                                                                                             floorSize
                                                                 name
13691 Gavina Ave UNIT 456, Sylmar, CA 91342
594 S Mapleton Dr, Los Angeles, CA 90024
2825 Elm St, Los Angeles, CA 90065
15455 Glenoaks Blvd SPACE 408, Sylmar, CA 91342
9131 Burnet Ave UNIT 13, North Hills, CA 91343

        lat
        Ing
        price st

        34. 321620 -118. 405085
        127. 777778

        34. 073182 -118. 429019
        2920. 353982

        34. 098499 -118. 232164
        598. 968407

        34. 323409 -118. 469445
        179. 648807

        34. 236181 -118. 463315
        397. 345133

                                                                                                                                                                                                                                                                                                                                                                                                                                                      price sf
                                                                                                                                                                                                                                                                                         1800
56500
                                                                                                                                                                                                                                                                                                                                         34. 051003 -118. 244519
34. 048398 -118. 464179
34. 103227 -118. 200718
34. 220060 -118. 584807
34. 143535 -118. 378891
                                                                4737 1/2 W Elmwood Ave, Los Angeles, CA 90049
11855 Goshen Ave APT 103, Los Angeles, CA 90049
233 S Avenue 50, Los Angeles, CA 90042
20737 Roscoe Blvd UNIT 704, Winnetka, CA 91306
4145 Tujunga Ave, Studio City, CA 91604
                                                                                                                                                                                                                                                                                              1605
1649
                                                                                                                                                                                                                                                                                                                                                                                                                                          621. 806854
175
176
                                                                                                                                                                                                                                                                                                                                                                                                                                          757. 428745
643. 139842
363. 924051
                                                                                                                                                                                                                                                                                              1516
1580
177
178
[175 rows x 7 columns]
```

```
his is the dataset from Kaggle:
                                                                                                                                                                                                                               floorSize
1,898 sqft
1,276 sqft
1,069 sqft
1,440 sqft
1,525 sqft
                                    name
6036 Moonstone Peak Dr Bakersfield, CA 93313
888 W E St #1803 San Diego, CA 92101
5535 Ackerfield Ave #26 Long Beach, CA 90805
1919 W Coronet Ave #161 Anaheim, CA 92801
11186 Berryknoll St San Diego, CA 92126
                                                                                                                                                                                                                                                                                     price
$238,956
$1,449,900
$369,000
$150,000
                                                                                                                                                                                                                                                                                                                                   1at 1ng
35. 275806 -119. 069890
32. 715040 -117. 170715
33. 857777 -118. 163666
33. 852856 -117. 948494
32. 925060 -117. 155810
                                                                                                                                                                                                                                                                                             $679,000
                                                                                                                                                                                                                                936 sqft
1,058 sqft
4,018 sqft
1,150 sqft
1,716 sqft
                                                                                                                                                                                                                                                                                                                                   33. 819378 -117. 894360
32. 767880 -117. 183780
36. 904080 -119. 752680
37. 730510 -122. 181046
37. 680702 -121. 031560
                        1250 E Bell Ave #89R Anaheim, CA 92805
6083 Cumulus Ln San Diego, CA 92110
Residence 5 Plan in Copper River Ranch by Gra...
441 Gramercy Pl Oakland, CA 94603
2621 Prescott Rd #161 Modesto, CA 95350
                                                                                                                                                                                                                                                                              $425,000
$499,000
$1,281,950+
$470,000
$119,000
2554

[2543 rows x 5 columns]

This is the dataset in CA with price per square foot column:

name floorSize

name floorSize

place CA 93313

1898

1276

1069
                                    6036 Moonstone Peak Dr Bakersfield, CA 93313
888 W E St #1803 San Diego, CA 92101
5535 Ackerfield Ave #26 Long Beach, CA 90805
1919 W Coronet Ave #161 Anaheim, CA 92801
11186 Berryknoll St San Diego, CA 92126
                                                                                                                                                                                                                                                                           price
238956
1449900
369000
150000

        lat
        lng
        price_st

        35.275806 -119.069890
        125.898841

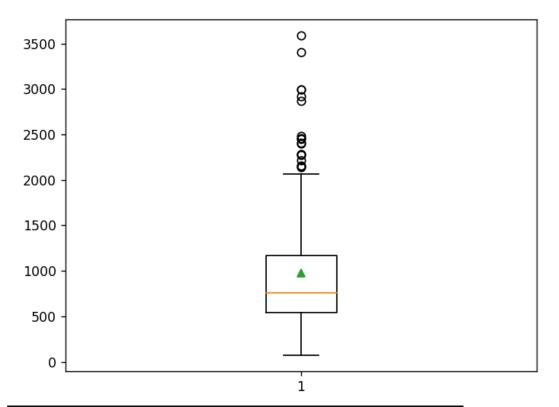
        32.715040 -117.170715
        1136.285266

        33.857777 -118.163666
        345.182413

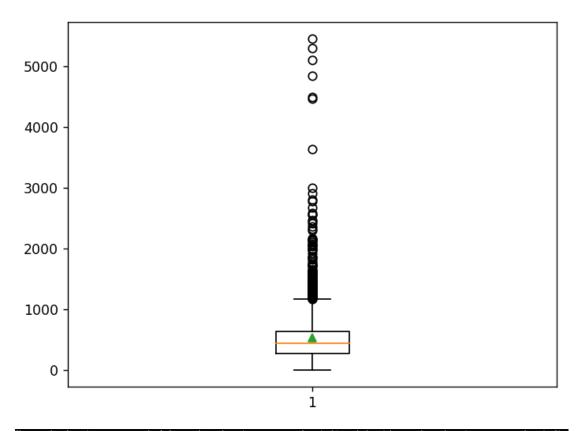
        33.852856 -117.948494
        104.166667

        32.925060 -117.155810
        445.245902

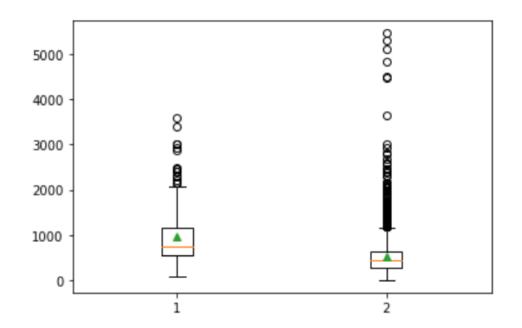
                                                                                                                                                                                                                                                     1069
1440
1525
                        1250 E Bell Ave #89R Anaheim, CA 92805
6083 Cumulus Ln San Diego, CA 92110
Residence 5 Plan in Copper River Ranch by Gra...
441 Gramercy Pl Oakland, CA 94603
2621 Prescott Rd #161 Modesto, CA 95350
                                                                                                                                                                                                                                                                                425000 33. 819378 -117. 894360
499000 32. 767880 -117. 183780
1281950 36. 904080 -119. 752680
470000 37. 730510 -122. 181046
119000 37. 680702 -121. 031560
                                                                                                                                                                                                                                                                            425000
499000
1281950
                                                                                                                                                                                                                                                                                                                                                                                                                471. 644612
319. 051767
408. 695652
69. 347319
                                                                                                                                                                                                                                                     1058
4018
1150
1716
[2543 rows x 6 columns]
Boxplot of price per square foot column in LA dataset:
```



Boxplot of price per square foot column in CA dataset: Second show







```
The maximum value of price per square foot in LA is 3588.5387875437627
The maximum value of price per square foot in LA is 71.92
The mean value of price per square foot in LA is 976.5168247199108
The median value of price per square foot in LA is 757.4287446937537
The standard deviation of price per square foot in LA is 669.3507624199301
The maximum value of price per square foot in CA is 5452.88197621226
The maximum value of price per square foot in CA is 3.961267605633803
The mean value of price per square foot in CA is 530.871858963036
The median value of price per square foot in CA is 445.2229299363057
The standard deviation of price per square foot in CA is 428.1518333310732
```

Last is the scatter plot, which shows the house pricing per square foot in LA

