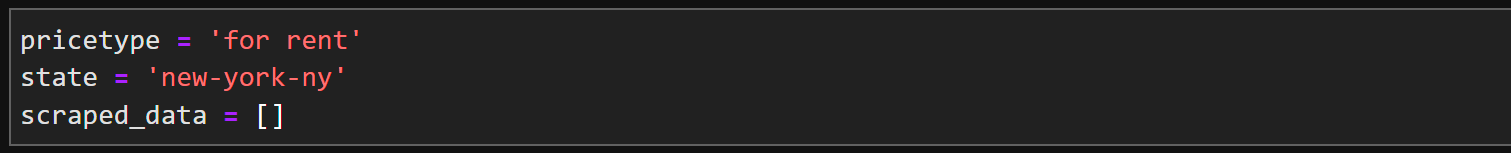
**Instruction of Data Crawling**

For the update about codes and data of crawling data from Zillow, there are several points I will demonstrate using my example which will help you understand better on the codes. I will use the example of New York City in NY to instruct how to use the codes.

1. Run all chunks above this chunk.



2. We need to set the parameters of this chunk first.

* If you are crawling through the data of rental houses, choose pricetype = “for rent”.

If you are crawling through the data of sold houses, please choose pricetype = “sold”.

* Go to Zillow.com and find the area you are crawling. Here is the first page of sold houses in Flowery Branch: [https://www.zillow.com/new-york-ny/rentals/?](https://www.zillow.com/new-york-ny/rentals/?searchQueryState=%7B%22pagination%22%3A%7B%7D%2C%22mapBounds%22%3A%7B%22north%22%3A40.94181827848816%2C%22south%22%3A40.452988104521204%2C%22east%22%3A-73.4835796206055%2C%22west%22%3A-74.47578237939456%7D%2C%22regionSelection%22%3A%5B%7B%22regionId%22%3A6181%2C%22regionType%22%3A6%7D%5D%2C%22isMapVisible%22%3Atrue%2C%22filterState%22%3A%7B%22fsba%22%3A%7B%22value%22%3Afalse%7D%2C%22fsbo%22%3A%7B%22value%22%3Afalse%7D%2C%22nc%22%3A%7B%22value%22%3Afalse%7D%2C%22cmsn%22%3A%7B%22value%22%3Afalse%7D%2C%22auc%22%3A%7B%22value%22%3Afalse%7D%2C%22fore%22%3A%7B%22value%22%3Afalse%7D%2C%22sort%22%3A%7B%22value%22%3A%22priorityscore%22%7D%2C%22fr%22%3A%7B%22value%22%3Atrue%7D%7D%2C%22isListVisible%22%3Atrue%2C%22mapZoom%22%3A11%2C%22usersSearchTerm%22%3A%22New%20York%20NY%22%7D)............ Copy the area factor in the link into the “state”

3. After running the chunks of parameters, we will deal with this chunk:

A screenshot of a computer program

Description automatically generated

Go to the second page of your Zillow link and copy the link into the **url** , remember to find and change the page factor in the link because it is a loop to get all pages. For me, the link will be:

<https://www.zillow.com/new-york-ny/apartments/2_p/?searchQueryState=%7B%22mapBounds%22%3A%7B%22north%22%3A40.95582102203072%2C%22south%22%3A40.46709399035135%2C%22east%22%3A-73.40392874169925%2C%22west%22%3A-74.39613150048831%7D%2C%22isMapVisible%22%3Atrue%2C%22filterState%22%3A%7B%22mf%22%3A%7B%22value%22%3Afalse%7D%2C%22ah%22%3A%7B%22value%22%3Atrue%7D%2C%22land%22%3A%7B%22value%22%3Afalse%7D%2C%22manu%22%3A%7B%22value%22%3Afalse%7D%2C%22tow%22%3A%7B%22value%22%3Afalse%7D%2C%22sort%22%3A%7B%22value%22%3A%22priorityscore%22%7D%2C%22fr%22%3A%7B%22value%22%3Atrue%7D%2C%22fsba%22%3A%7B%22value%22%3Afalse%7D%2C%22fsbo%22%3A%7B%22value%22%3Afalse%7D%2C%22nc%22%3A%7B%22value%22%3Afalse%7D%2C%22cmsn%22%3A%7B%22value%22%3Afalse%7D%2C%22auc%22%3A%7B%22value%22%3Afalse%7D%2C%22fore%22%3A%7B%22value%22%3Afalse%7D%2C%22sf%22%3A%7B%22value%22%3Afalse%7D%7D%2C%22isListVisible%22%3Atrue%2C%22category%22%3A%22cat1%22%2C%22regionSelection%22%3A%5B%7B%22regionId%22%3A6181%2C%22regionType%22%3A6%7D%5D%2C%22usersSearchTerm%22%3A%22New%20York%20NY%22%2C%22pagination%22%3A%7B%22currentPage%22%3A2%7D%2C%22mapZoom%22%3A11%7D>

You can see that the yellow part indicates the current page, basically the number in red means the current page number you are seeing. Change this link and parse this into the **url**:

https://www.zillow.com/new-york-ny/apartments/2\_p/?searchQueryState=%7B%22mapBounds%22%3A%7B%22north%22%3A40.95582102203072%2C%22south%22%3A40.46709399035135%2C%22east%22%3A-73.40392874169925%2C%22west%22%3A-74.39613150048831%7D%2C%22isMapVisible%22%3Atrue%2C%22filterState%22%3A%7B%22mf%22%3A%7B%22value%22%3Afalse%7D%2C%22ah%22%3A%7B%22value%22%3Atrue%7D%2C%22land%22%3A%7B%22value%22%3Afalse%7D%2C%22manu%22%3A%7B%22value%22%3Afalse%7D%2C%22tow%22%3A%7B%22value%22%3Afalse%7D%2C%22sort%22%3A%7B%22value%22%3A%22priorityscore%22%7D%2C%22fr%22%3A%7B%22value%22%3Atrue%7D%2C%22fsba%22%3A%7B%22value%22%3Afalse%7D%2C%22fsbo%22%3A%7B%22value%22%3Afalse%7D%2C%22nc%22%3A%7B%22value%22%3Afalse%7D%2C%22cmsn%22%3A%7B%22value%22%3Afalse%7D%2C%22auc%22%3A%7B%22value%22%3Afalse%7D%2C%22fore%22%3A%7B%22value%22%3Afalse%7D%2C%22sf%22%3A%7B%22value%22%3Afalse%7D%7D%2C%22isListVisible%22%3Atrue%2C%22category%22%3A%22cat1%22%2C%22regionSelection%22%3A%5B%7B%22regionId%22%3A6181%2C%22regionType%22%3A6%7D%5D%2C%22usersSearchTerm%22%3A%22New%20York%20NY%22%2C%22pagination%22%3A%7B%22currentPage%22%3A{page}%7D%2C%22mapZoom%22%3A11%7D

Then you just need to run the left chunks and you will get the data you want. Please remember to change the file location to store the file. You will find three files for one location.