

```
In [1]: from audioop import add
        from xml.sax.handler import property_lexical_handler
        from numpy import full
        import requests
        import pandas as pd
        import re
        import os.path
```

City and State inputs.

```
In [2]: if 0:
        city = input("City?: ")
        if not re.match('^[A-Za-z]*$', city):
            print('Error! Only letters a-z allowed.')
        state = input(f'Two Character State?: ')
        if not re.match('^[A-Za-z]*$', state):
            print('Error! Only letters a-z allowed.')
        elif len(state) > 2:
            print('Error! Only 2 Characters allowed!')
        print(f'Looking for houses in {city}, {state}.')
    else:
        city = 'Beaverton'
        state = 'OR'
```

```
In [3]: agent = []
        home_type = []
        year_built = []
        address = []
        bedrooms = []
        bathrooms = []
        sq_foot = []
        price = []
        sold_date = []
        sold_price = []
```

```
In [ ]: offset = 0
        page_len = 200
        total = 1
        count = 1
```

```
In [ ]: while page_len > 0:
        page_increment = '/pg_1'
        pageindex = f'https://www.realtor.com/realestateandhomes-search/{city}_{state}'
        headers = {
            'accept': 'application/json',
        }
        params = {
            'client_id': 'rdc-x',
            'schema': 'vesta',
        }
        json_data = {
            # This is a graphql query, so you can change what data you get back
            'query': ''
        }
        query ConsumerSearchMainQuery($query: HomeSearchCriteria!, $limit: Int, $offset: Int) {
```