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Public Data Portal Tutorial

Secret Key, Base Url

```
In [ ]: SERVICE_KEY = r'y%2BYI%2F3eYALrp6Z4%2Ff%2FoPhqKdk6hRwGfJqfxHVj98JuneHV6EeE5NqPEW
BASE_URL = 'http://apis.data.go.kr/1300000/MJBGJWJeopSuHH3/list'
```

Import libraries

```
import requests
import numpy as np
import pandas as pd
from bs4 import BeautifulSoup as bs
import xmltodict
import json
```

Get Data From API

```
In []: def getData(pageNo):
    # init setting
    baseUrl = 'http://apis.data.go.kr/1300000/MJBGJWJeopSuHH3/list'
    serviceKey = 'y%2BYI%2F3eYALrp6Z4%2Ff%2FoPhqKdk6hRwGfJqfxHVj98JuneHV6EeE5NqF
    numOfRows = 1000

# get request
    endPoint = f'{baseUrl}?pageNo={pageNo}&numOfRows={numOfRows}&ServiceKey={ser
    response = requests.get(endPoint)
    if (response.status_code !=200):
        raise Exception('Invalid Error')

# xml to json
    data_dict = xmltodict.parse(response.text)

return data_dict
```

Get Sample Data

```
There's 866 rows
```

So that to get all data, it's sufficient to get page 1 with parameter numOfRows 1000

```
In [ ]: sampleData = getData(pageNo=1)
    print(f"Total Elements : {sampleData['response']['body']['totalCount']}")
```

Total Elements : 866

Parsing Data

● mojipYy : 모집년도

● iyyjsijakYm : 입영시작월

● mojipYy : 모집년도

• gsteukgiCd : 군사특기명

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• seonbalPcnt : 선발인원수

```
In [ ]: df = pd.DataFrame(sampleData['response']['body']['items']['item'])
    print(f'Dataframe has shape with {df.shape[0]}')
    df.head()
```

Dataframe has shape with 866

Out[]:		extremes	gsteukgiCd	gsteukgiNm	gunGbnm	iybudaeCdm	iyyjjongryoYm	iyyjsijal
	0	88	A001	동반입대병	육군	7사단	202305	202
	1	84	A001	동반입대병	육군	12사단	202305	202
	2	86	A001	동반입대병	육군	15사단	202305	202
	3	90	A001	동반입대병	육군	21사단	202305	202
	4	170	A001	동반입대병	육군	1사단	202305	202

Save Raw Data

```
In [ ]: df.to_csv("raw_data.csv", index=False)
```