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import os
import sys
import urllib.request
import datetime
import time
import json
client_id = '본인이 발급받은 네이버 Client ID'
client_secret = '본인이 발급받은 네이버 Client Secret'

#[CODE 1]
def getRequestUrl(url):
    req = urllib.request.Request(url)
    req.add_header("X-Naver-Client-Id", client_id)
    req.add_header("X-Naver-Client-Secret", client_secret)

    try:
        response = urllib.request.urlopen(req)
        if response.getcode() == 200:
            print("[%s] Url Request Success" % datetime.datetime.now())
            return response.read().decode('utf-8')

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except Exception as e:
    print(e)
    print("[%s] Error for URL : %s" % (datetime.datetime.now(), url))
    return None

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#### #[CODE 2]

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def getNaverSearch(node, srcText, start, display):
    base = "https://openapi.naver.com/v1/search"
    node = "/%s.json" % node
    parameters = "?query = %s&start = %s&display = %s" %
        (urllib.parse.quote(srcText), start, display)

    url = base + node + parameters
    responseDecode = getRequestUrl(url) #[CODE 1]

    if (responseDecode == None):
        return None
    else:
        return json.loads(responseDecode)

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#### #[CODE 3]

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def getPostData(post, jsonResult, cnt):
    title = post['title']
    description = post['description']
    org_link = post['originallink']
    link = post['link']

    pDate = datetime.datetime.strptime(post['pubDate'], '%a,
        %d %b %Y %H:%M:%S+0900')
    pDate = pDate.strftime('%Y-%m-%d %H:%M:%S')

    jsonResult.append({'cnt':cnt, 'title':title, 'description': description,
        'org_link':org_link, 'link': org_link, 'pDate':pDate})

    return

```

#### #[CODE 0]

```

def main():
    node = 'news' #크롤링할 대상
    srcText = input('검색어를 입력하세요: ')
    cnt = 0
    jsonResult = []
    jsonResponse = getNaverSearch(node, srcText, 1, 100) #[CODE 2]
    total = jsonResponse['total']

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while ((jsonResponse != None) and (jsonResponse['display'] != 0)):
    for post in jsonResponse['items']:
        cnt += 1
        getPostData(post, jsonResult, cnt) #[CODE 3]

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start = jsonResponse['start'] + jsonResponse['display']
jsonResponse = getNaverSearch(node, srcText, start, 100) #[CODE 2]

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print('전체 검색 : %d 건' %total)

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with open('%s_naver_%s.json' % (srcText, node), 'w', encoding='utf8')
    as outfile:
    jsonFile = json.dumps(jsonResult, indent = 4, sort_keys = True,
        ensure_ascii = False)

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outfile.write(jsonFile)

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print("가져온 데이터 : %d 건" %cnt)
print('%s_naver_%s.json SAVED' % (srcText, node))

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if __name__ == '__main__':
    main()

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