lxml 사용 기초 스크랩핑(1)

```
In [15]:  # pip install lxml 을 윈도우 cmd 창에서 실행한다.
          # pip install requests
          # pip install cssselect
```

```
In [10]:  from typing import get_args
          import requests
          from lxml.html import fromstring, tostring
```

```
In [11]:  def main():
              """
              네이버 지식인 스크랩핑 메인 함수
              """

              # 세션 사용
              session = requests.Session()

              # 스크랩핑 대상 URL (GET, POST)
              response = session.get("https://kin.naver.com/search/list.nhn?query=%ED%8C%8C%EC%9D%B4%EC%8D%AC")

              # 신문사 링크 리스트 획득
              urls = scrape_news_list_page(response)

              # 딕셔너리 확인
              # print(urls)

              # 결과 출력
              for name, url in urls.items():
                  # url 출력
                  print(name, url)

                  # 파일 쓰기
                  # 생략
```

```
In [12]:  def scrape_news_list_page(response):
              # url 리스트 선언
              urls = {}

              # 태그 정보 문자열 저장
              #print(response.content)
              root = fromstring(response.content)
              #print(root)

              for a in root.xpath('//ul[@class="basic1"]/li/dl/dt/a[@class="_nclicks:kin.txt _searchListTitleAnchor"]'):
                  # a 구조 확인
                  # print(a)

                  # a 문자열 출력
                  # print(tostring(a, pretty_print=True))

                  name, url = extract_conents(a)
                  # 딕셔너리 삽입
                  urls[name] = url

              return urls
```

```
In [13]:  def extract_conents(doc):
              # 링크 주소
              link = doc.get("href")
              name = doc.text_content()
              return name, link
```

```
# 스크랩핑 시작
if __name__ == '__main__':
    main()
```

파이썬에서 enumerate 질문이요 https://kin.naver.com/qna/detail.naver?d1id=1&dirId=10402&docId=393495506&qb=7YyM7J207l2s&enc=utf8&section=kin&rank=1&search_sort=0&spq=0 (https://kin.naver.com/qna/detail.naver?d1id=1&dirId=10402&docId=393495506&qb=7YyM7J207l2s&enc=utf8&section=kin&rank=1&search_sort=0&spq=0)

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파이썬 코딩 https://kin.naver.com/qna/detail.naver?d1id=1&dirId=10402&docId=394357084&qb=7YyM7J207l2s&enc=utf8&section=kin&rank=3&search_sort=0&spq=0 (https://kin.naver.com/qna/detail.naver?d1id=1&dirId=10402&docId=394357084&qb=7YyM7J207l2s&enc=utf8&section=kin&rank=3&search_sort=0&spq=0)

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