urlopen 함수 기초 사용법

```
In [2]: import urllib.request as req
        from urllib.error import URLError, HTTPError
```

```
In [3]: # 다운로드 경로 및 파일명
        path_list = ["c:\\MyExam\\test1.jpg", "c:\\MyExam\\index.html"]
```

```
In [4]: # 다운로드 리소스 URL
        target_url = ["http://post.phinf.naver.net/20160621_169/1466482468068lmSHj_JPEG/lf7GeIb0PZuYwI-GI3xU7ENRrlfl.jpg",
                      "http://google.com"]
```

```python
In [5]:  for i, url in enumerate(target_url):
             # 예외 처리
             try:
                 # 웹 수신 정보 읽기
                 response = req.urlopen(url)

                 # 수신 내용
                 contents = response.read()

                 print('--------------------------------------------------')

                 # 상태 정보 중간 출력
                 print('Header Info-{} : {}'.format(i, response.info()))
                 print('HTTP Status Code : {}'.format(response.getcode()))
                 print()
                 print('--------------------------------------------------')

                 # 파일 쓰기
                 with open(path_list[i], 'wb') as c:
                     c.write(contents)

             # HTTP 에러 발생 시
             except HTTPError as e:
                 print("Download failed.")
                 print('HTTPError Code : ', e.code)

             # URL 에러 발생 시
             except URLError as e:
                 print("Download failed.")
                 print('URL Error Reason : ', e.reason)

             # 성공
             else:
                 print()
                 print("Download Succeed.")
```

```
--------------------------------------------------
Header Info-0 : Date: Mon, 16 Aug 2021 13:44:47 GMT
Accept-Ranges: bytes
Cache-Control: max-age=15552000
Content-Length: 797094
Content-Type: image/jpeg
Last-Modified: Mon, 16 Aug 2021 13:44:48 GMT
p3p: CP="ALL CURa ADMa DEVa TAIa OUR BUS IND PHY ONL UNI PUR FIN COM NAV INT DEM CNT STA POL HEA PRE LOC OTC"
Age: 0
Expires: Sat, 12 Feb 2022 13:44:48 GMT
Connection: close


HTTP Status Code : 200

--------------------------------------------------

Download Succeed.
--------------------------------------------------
Header Info-1 : Date: Mon, 16 Aug 2021 13:44:49 GMT
Expires: -1
Cache-Control: private, max-age=0
Content-Type: text/html; charset=ISO-8859-1
P3P: CP="This is not a P3P policy! See g.co/p3phelp for more info."
Server: gws
X-XSS-Protection: 0
X-Frame-Options: SAMEORIGIN
Set-Cookie: 1P_JAR=2021-08-16-13; expires=Wed, 15-Sep-2021 13:44:49 GMT; path=/; domain=.google.com; Secure
Set-Cookie: NID=221=yEtzkzhI-6kkZEIPesXkhSgEumYZxh5-9XjdkIVK6rG4-drahT-NYPgpm03Gw1Q4pjx8YFMrWNqZ-qMTCx7TS8vCwOzZVKM-xOcyIK47t4qM
JgMAiwonAOUkvpGRswIgHOS28aC3I4U9LBWkzie4Y_PRjy-OskOgdIq7WfC4SeM; expires=Tue, 15-Feb-2022 13:44:49 GMT; path=/; domain=.google.c
om; HttpOnly
Accept-Ranges: none
Vary: Accept-Encoding
Connection: close
Transfer-Encoding: chunked


HTTP Status Code : 200

--------------------------------------------------

Download Succeed.
```

In [ ]: