

Get 방식 데이터 통신(1)

[1]:

```
1 import urllib.request
2 from urllib.parse import urlparse
```

[2]:

```
1 # 기본 요청1(encar)
2 url = "http://www.encar.com/"
3
4 mem = urllib.request.urlopen(url)
5
```

[3]:

```
1 # 여러 정보
2 print('type : {}'.format(type(mem)))
3 print("geturl : {}".format(mem.geturl()))
4 print("status : {}".format(mem.status))
5 print("headers : {}".format(mem.getheaders()))
6 print("getcode : {}".format(mem.getcode()))
7 print("read : {}".format(mem.read(1).decode('utf-8'))) # 바이트 수
8 print('parse : {}'.format(urlparse('http://www.encar.co.kr?test=test')))
```

```
type : <class 'http.client.HTTPResponse'>
geturl : http://www.encar.com/index.do (http://www.encar.com/index.do)
status : 200
headers : [('X-Encar-Web', 'P2'), ('Date', 'Mon, 16 Jan 2023 04:09:21 GMT'), ('Set-Cookie', 'WMONID=V1fjkkm2h0Y; Expires=Tue, 16-Jan-2024 13:09:21 GMT; Path=/'), ('Content-Type', 'text/html; charset=EUC-KR'), ('Connection', 'close'), ('Content-Language', 'ko-KR'), ('Set-Cookie', 'JSESSIONID=a016YYbaoj107tGTrtszeJoTNw1DjVzhitagUTPXKLEzjFINbH0nPuIRKRRQWxoh.mono-was2-prod_servlet_encarWeb4;Path=/'), ('P3P', 'CP='CAO PSA CONi OTR OUR DEM ONL'), ('X-UA-Compatible', 'IE=Edge'), ('X-Encar-WAS', 'W4'), ('Transfer-Encoding', 'chunked')]
getcode : 200
read :

parse : test=test
```

[4]:

```
1 # 기본 요청2(ipify)
2 API = "https://api.ipify.org"
3
```

[5]:

```
1 # Get 방식 Parameter
2 values = {
3     'format': 'json'
4 }
5
```

[6]:

```
1 print('before param : {}'.format(values))
2 params = urllib.parse.urlencode(values)
3 print('after param : {}'.format(params))
```

before param : {'format': 'json'}

after param : format=json

[7]:

```
1 # 요청 URL 생성
2 url = API + "?" + params
3 print("요청 url= {}".format(url))
```

요청 url= <https://api.ipify.org?format=json> (<https://api.ipify.org?format=json>)

[8]:

```
1 # 수신 데이터 읽기
2 data = urllib.request.urlopen(url).read()
```

[9]:

```
1 # 수신 데이터 디코딩
2 text = data.decode("utf-8")
3 print('response : {}'.format(text))
```

response : {"ip": "222.107.238.23"}

[]:

```
1
```