

# Python Programming

## Flask WAS



권기웅



# 1. Flask 모듈 설치

## 1.1 Flask 모듈 설치

명령프롬프트에서 `pip install flask`

```
명령 프롬프트
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\W\Ki-ung>pip install flask
Collecting flask
  Downloading Flask-0.12.2-py2.py3-none-any.whl (83kB)
    100% |#####| 92kB 509kB/s
Collecting Werkzeug>=0.7 (from flask)
  Downloading Werkzeug-0.12.2-py2.py3-none-any.whl (312kB)
    100% |#####| 317kB 1.4MB/s
Collecting itsdangerous>=0.21 (from flask)
  Downloading itsdangerous-0.24.tar.gz (46kB)
    100% |#####| 51kB 1.5MB/s
Collecting Jinja2>=2.4 (from flask)
  Downloading Jinja2-2.10-py2.py3-none-any.whl (126kB)
    100% |#####| 133kB 1.5MB/s
Collecting olibk>=2.0 (from flask)
  Downloading olibk-6.7-py2.py3-none-any.whl (71kB)
    100% |#####| 71kB 2.2MB/s
Collecting MarkupSafe>=0.23 (from Jinja2>=2.4->flask)
  Downloading MarkupSafe-1.0.tar.gz
Installing collected packages: Werkzeug, itsdangerous, MarkupSafe, Jinja2, olibk, flask
  Running setup.py install for itsdangerous ... done
  Running setup.py install for MarkupSafe ... done
Successfully installed Jinja2-2.10 MarkupSafe-1.0 Werkzeug-0.12.2 olibk-6.7 flask-0.12.2 itsdangerous-0.24

C:\Users\W\Ki-ung>
```



## 2. Flask WAS

### 2.1 기본 요청 받기

#### 2.1.1 기본 요청 받기

```
*Python 3.6.3 Shell*
File Edit Shell Debug Options Window Help

Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 18:11:49) [MSC v.1900 64 b
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/workspacePython/flaskTest.py =====
* Restarting with stat

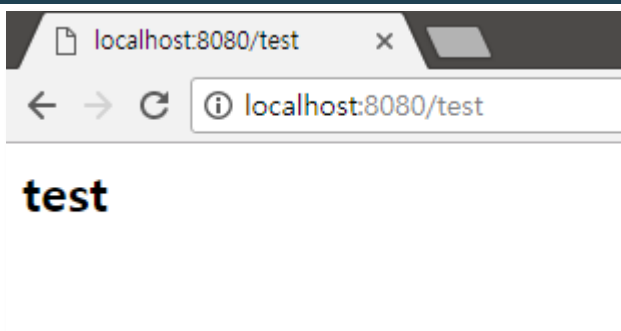
flaskTest.py - D:/workspacePython/flaskTest.py (3.6.3)
File Edit Format Run Options Window Help

from flask import Flask
app = Flask(__name__)

@app.route("/test") # 요청주소
def test():
    html = "<html><head></head><body>"
    html += "<h2>test</h2>"
    html += "</body></html>"
    return html

if __name__ == "__main__":
    app.run(host = "0.0.0.0", #모두 접근 가능
            port = 8080,
            debug = True) # 소스 수정하면 자동 서버 재시작
```

#### 2.1.2 결과



## 2.2 요청 파라미터 처리

TypeError: %d format: a x

localhost:8080/paramTest?dan=3

dan

```
3 x 1 = 3
3 x 2 = 6
3 x 3 = 9
3 x 4 = 12
3 x 5 = 15
3 x 6 = 18
3 x 7 = 21
3 x 8 = 24
3 x 9 = 27
```

```
flaskTest.py - D:/workspacePython/flaskTest.py (3.6.3)
File Edit Format Run Options Window Help

from flask import Flask
from flask import request
app = Flask(__name__)

@app.route("/test")
def test():
    html = "<html><head></head><body>"
    html += "<h2>test</h2>"
    html += "</body></html>"
    return html

@app.route("/paramTest")
def paramTest():
    dan = request.args.get("dan") # request.args.get("요청 파라미터명")
    html = "<html><head></head><body>"
    html += "<h2>dan</h2>"
    for i in range(1, 10):
        html += "%s x %d = %d<br>" % (dan, i, int(dan) * i)
    html += "</body></html>"
    return html

if __name__ == "__main__":
    app.run(host = "0.0.0.0",
            port = 8080,
            debug = True)
```

