



## Flask 란?

- 플라스크(Flask)는 파이썬으로 웹 어플리케이션을 만드는 **마이크로 웹 프레임워크**

마이크로 웹 프레임워크란?

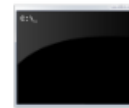
최소한의 핵심기능만을 유지하고, 다른 기능들의 확장에 기준을 둔 것

- 대표적인 웹 프레임워크는 Django, Flask 등 
- 공식사이트(<https://flask.palletsprojects.com/en/1.0.x/>)

# Flask 설치

## 1. \$ pip install flask

```
Collecting flask
  Downloading https://files.pythonhosted.org/packages/7f/e7/08578774ed4536d3242b14dadb4696386634607af824ea997202cd0edb4b/Flask-1.0.2-py2.py3-none-any.whl (91kB)
    100% |#####| 92kB 392kB/s
Collecting Jinja2>=2.10 (from flask)
  Downloading https://files.pythonhosted.org/packages/7f/ff/ae64bacdfc95f27a016a7bed8e9686763ba4d277a78ca76f32659220a731/Jinja2-2.10-py2.py3-none-any.whl (126kB)
    100% |#####| 133kB 890kB/s
Collecting itsdangerous>=0.24 (from flask)
  Downloading https://files.pythonhosted.org/packages/dc/b4/a60bccba945c00f6d608d8975131ab3f25b22f2bcfe1dab221165194b2d4/itsdangerous-0.24.tar.gz (46kB)
    100% |#####| 51kB 1.5MB/s
Collecting Werkzeug>=0.14 (from flask)
  Downloading https://files.pythonhosted.org/packages/20/c4/12e3e56473e52375aa29c4764e70d1b8f3efa6682bef8d0aae04fe335243/Werkzeug-0.14.1-py2.py3-none-any.whl (322kB)
    100% |#####| 327kB 368kB/s
Collecting click>=5.1 (from flask)
  Downloading https://files.pythonhosted.org/packages/34/c1/8806f99713ddb93c5366c362b2f908f18269f8d792aff1abfd700775a77/click-6.7-py2.py3-none-any.whl (71kB)
    100% |#####| 71kB 2.5MB/s
Collecting MarkupSafe>=0.23 (from Jinja2>=2.10->flask)
  Downloading https://files.pythonhosted.org/packages/4d/de/32d741db316d8fdb7680822dd37001ef7a448255de9699ab4bfcdbdf4172b/MarkupSafe-1.0.tar.gz
Installing collected packages: MarkupSafe, Jinja2, itsdangerous, Werkzeug, click, flask
Running setup.py install for MarkupSafe ... done
```



명령 프롬프트

간혹 버전이 낮아서 설치가 안된다면 upgrade 후 설치  
pip install --upgrade pip  
pip install flask

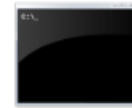
## Flask 설치 확인

2. \$ python
3. \$ from flask import Flask

```
EJ@EUNJEONG-LAPTOP C:\Users\EJ\Desktop\quantumAI\flask_tutorial_01
> python
Python 3.7.3 (default, Mar 27 2019, 17:13:21) [MSC v.1915 64 bit (AMD64)] :: Anaconda, Inc. on win32

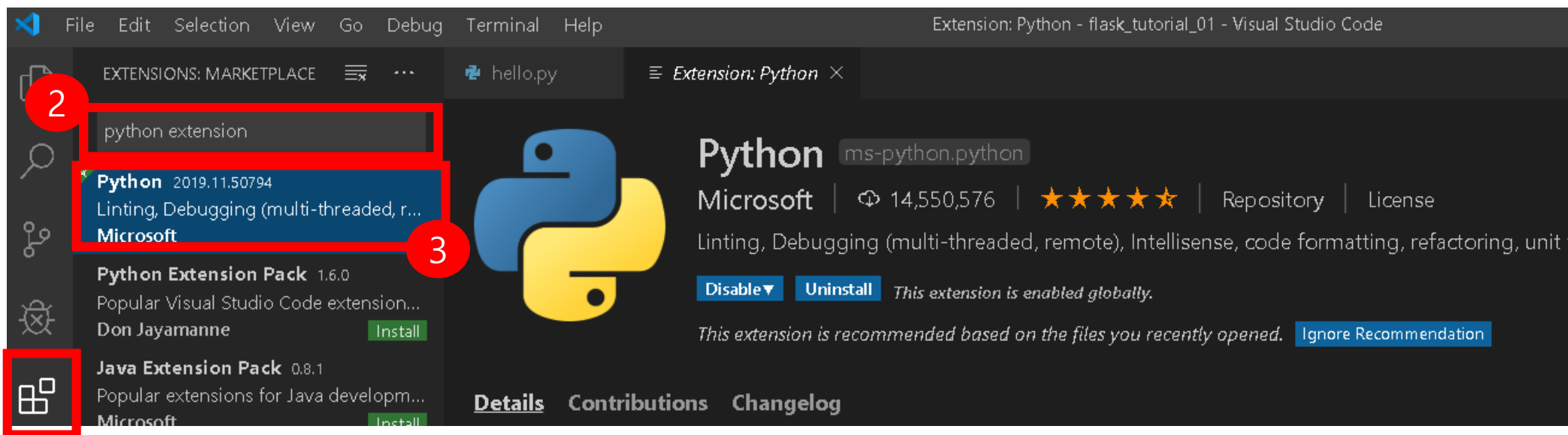
Warning:
This Python interpreter is in a conda environment, but the environment has
not been activated. Libraries may fail to load. To activate this environment
please see https://conda.io/activation

Type "help", "copyright", "credits" or "license" for more information.
>>> from flask import Flask
>>>
```



명령 프롬프트

## 4. vscode에서 python extension 설치(연결 안되신 분들만!)



## Flask 테스트코드 실행

Flask\_tutorial\_01 폴더에서

\$ python hello\_test.py

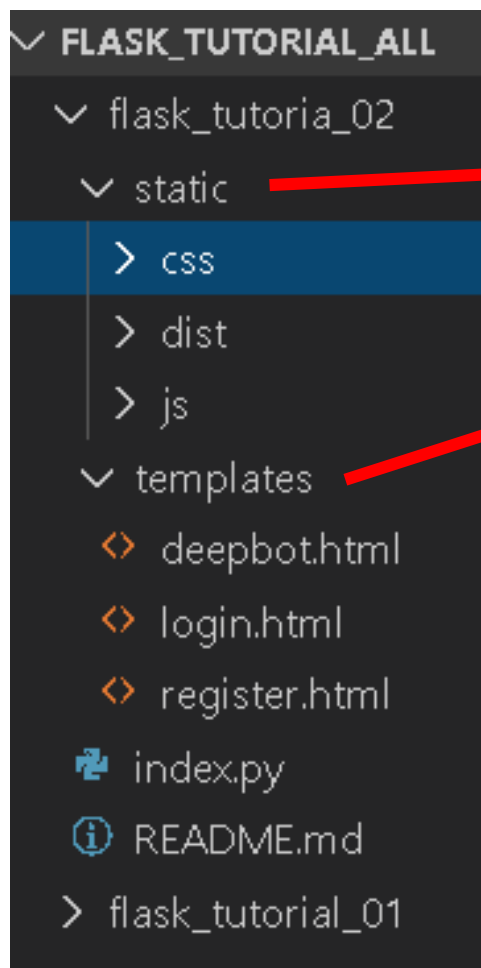
웹브라우저 주소창 에서  
<http://127.0.0.1:5000> 입력

```
EJ@EUNJEONG-LAPTOP C:\Users\EJ\Desktop\quantumAI\flask_tutorial_01
> python hello_test.py
* Serving Flask app "hello_test" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```



Hello World!

Learn to code



**static:** css,js,image,media등의 파일을 저장

**templates :** html파일 폴더로 사용

Flask는 기본적으로 view랜더링을 할때 html파일을 호출하는데 무조건 templates폴더에 있는 html파일을 호출하게 되어있음 스펠링 주의





<https://jinja.palletsprojects.com/en/2.10.x/>

Jinja2 는 python 웹 프레임워크인 Flask 에 내장되어 있는 Template 엔진

- `{{ ... }}` : 변수나 표현식
- `{% ... %}` : if나 for같은 제어문
- `{# ... #}` : 주석

Learn to code