
Python

Flask

Flask 설치

- **pip upgrade**

C:\>python -m pip install --upgrade pip

- **virtualenv 설치**

C:\>pip install virtualenv

- virtualenv는 가상 Python 환경 빌더.
- virtualenv는 다수의 Python 환경을 생성한다.
- 따라서 다른 버전의 라이브러리의 사이에서 발생할 수 있는 호환성 문제를 피할 수 있다

- **프로젝트 디렉토리 생성**

D:\workspace>virtualenv flaskapp

Using base prefix 'c:\\python'

New python executable in D:\workspace\flaskapp\Scripts\python.exe

Installing setuptools, pip, wheel...done.

- **Flask 설치**

D:\workspace\flaskapp>pip install Flask



Flask 설치 검증

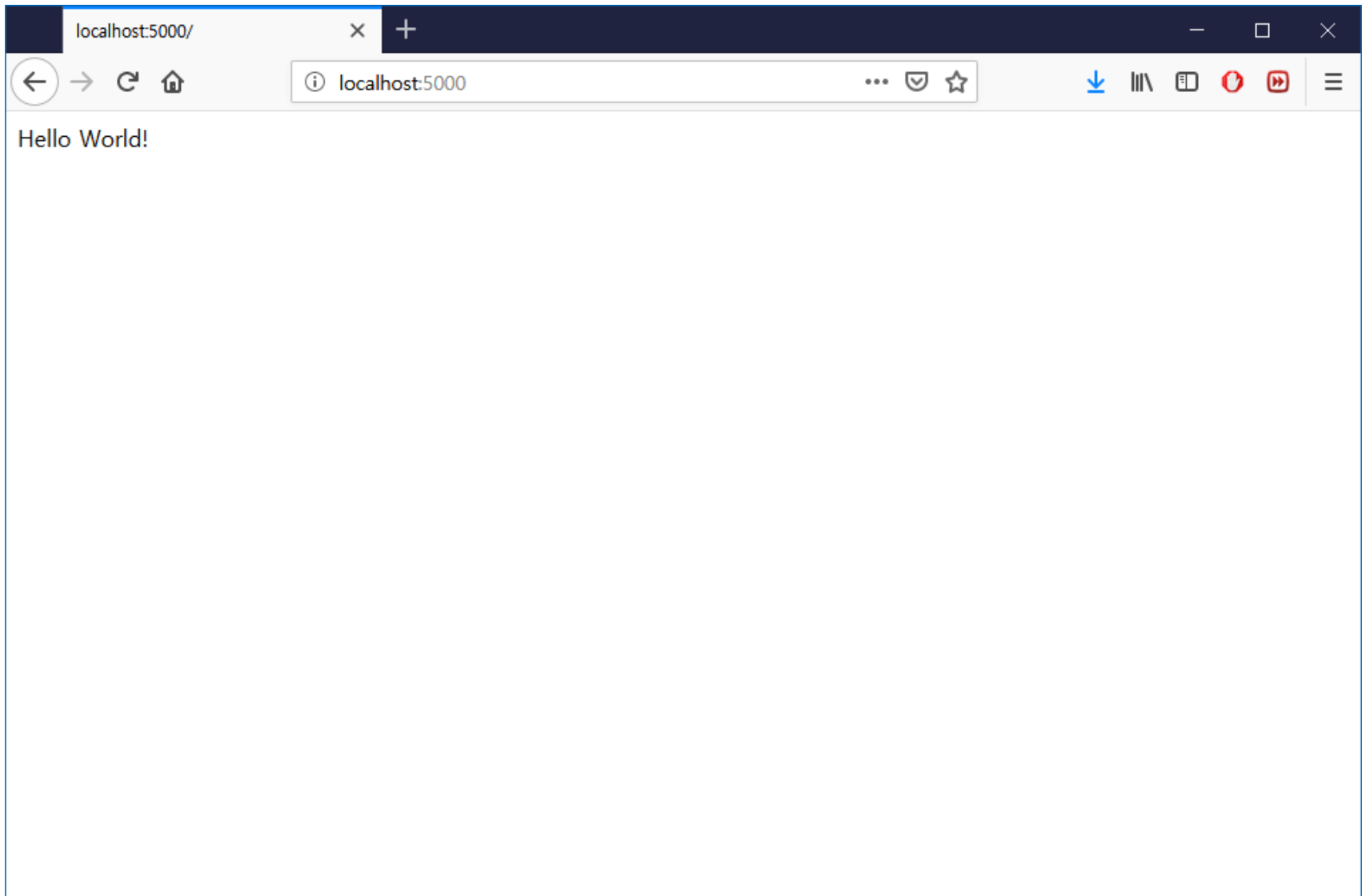
hello.py 생성

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

```
@app.route('/')
def hello_world():
    return 'Hello, World!'
```



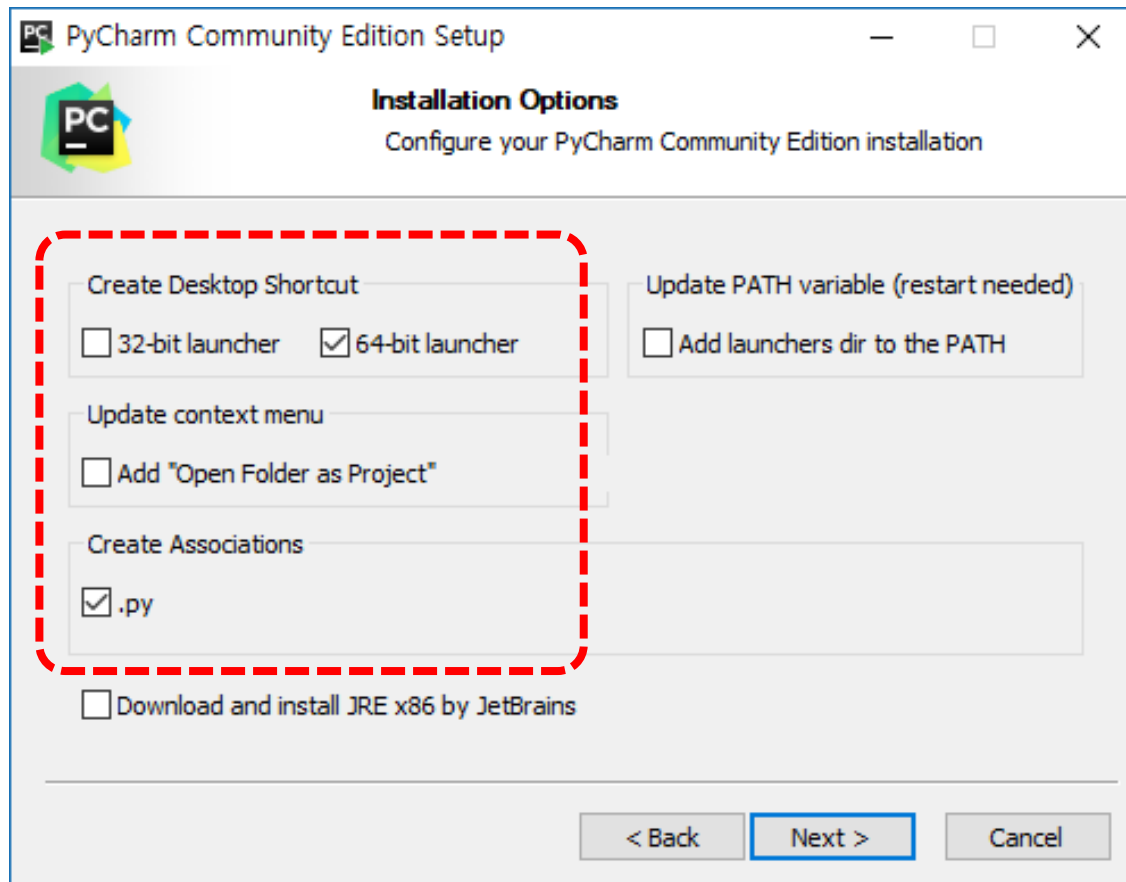
```
ca. 명령 프롬프트 - python -m flask run
D:\workspace\workspace_python>set FLASK_APP=hello.py
D:\workspace\workspace_python>python -m flask run
* Serving Flask app "hello.py"
* Environment: production
  WARNING: Do not use the development server in a production environment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```



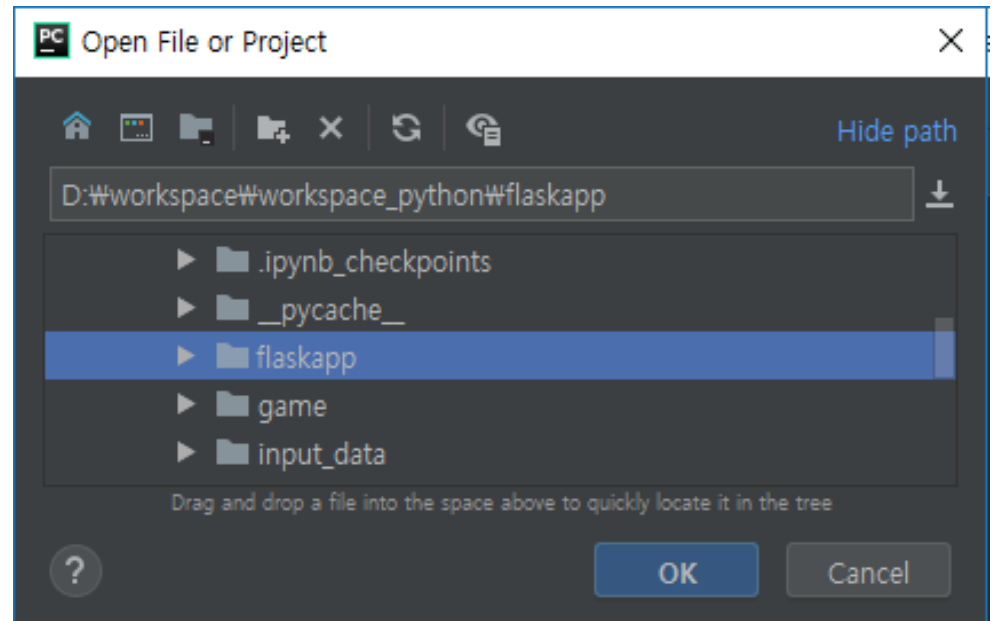
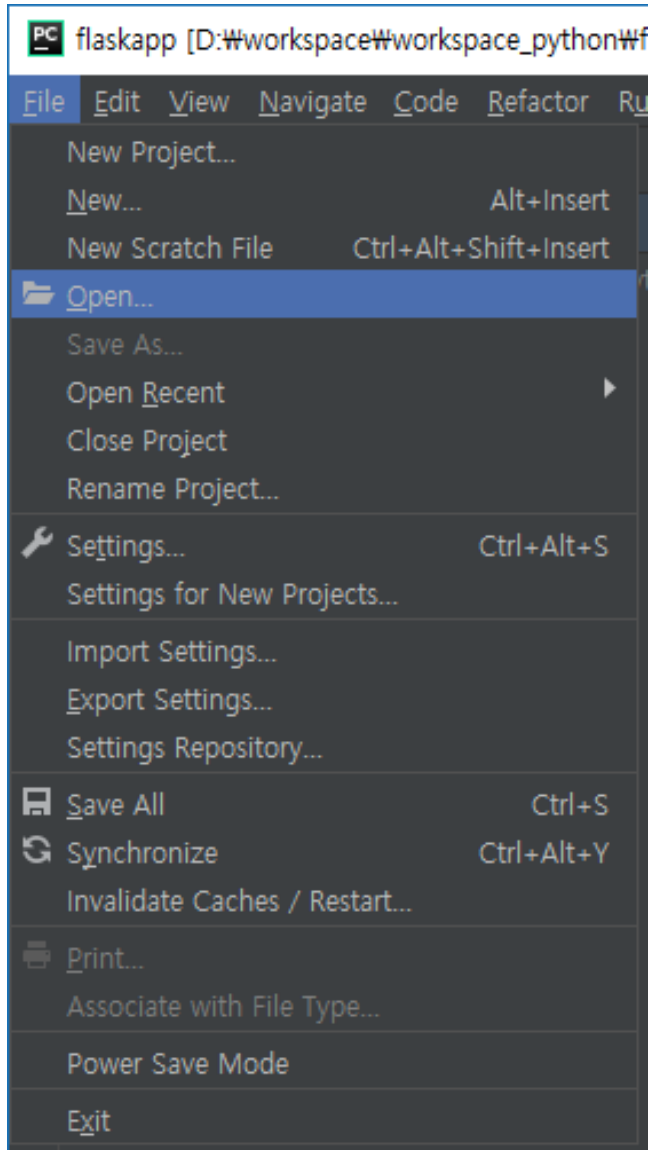
PyCharm 설치

<https://www.jetbrains.com/pycharm/download/#section=windows>

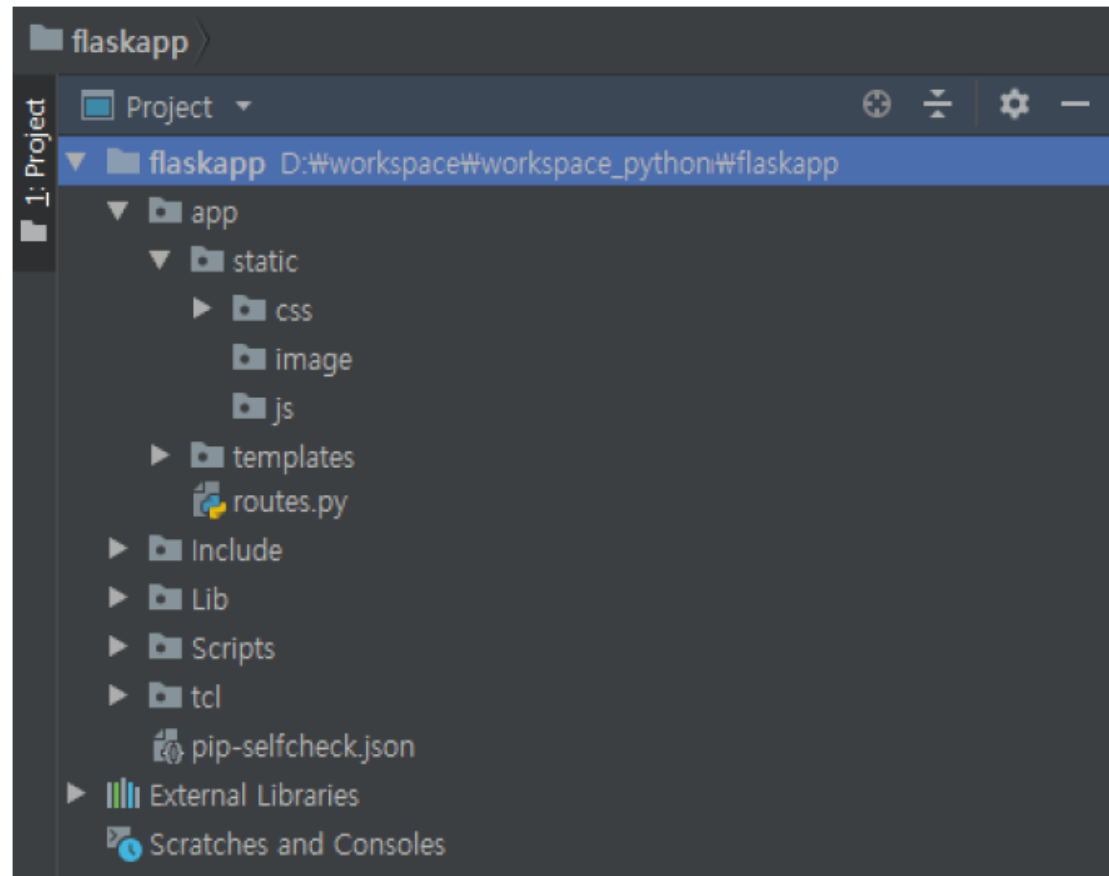
※ "64-bit launcher" 와 ".py" 옵션은 반드시 체크.



flaskapp 선택



- PyCharm에서 flaskapp폴더 하위에 app 폴더를 생성하고 하위에 다음과 같이 생성한다.
 - app -> static -> css, image, js
 - app -> templates
 - app -> routes.py



app/templates/layout.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Flask App</title>
  <link rel="stylesheet" href="{{ url_for('static', filename='css/main.css') }}">
</head>
<body>
  <header>
    <div class="container">
      <h1 class="logo">Flask App</h1>
      <strong><nav>
        <ul class="menu">
          <li><a href="{{ url_for('home') }}">Home</a></li>
          <li><a href="{{ url_for('about') }}">About</a></li>
        </ul>
      </nav></strong>
    </div>
  </header>
  <div class="container">
    {% block content %}
    {% endblock %}
  </div>
</body>
</html>
```



```
{% extends "layout.html" %}
{% block content %}
<div class="jumbo">
    <h2>Hello Flask App<h2>
    <h3>This is the home page for the Flask app<h3>
</div>
{% endblock %}
```

```
{% extends "layout.html" %}
{% block content %}
<h2>About</h2>
<p>This is an About page for the Intro to Flask article.</p>
{% endblock %}
```

```
body {margin: 0;padding: 0;font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;color: #444;}

header {background-color: #2B2B2B;height: 35px;width: 100%;opacity: .9;margin-bottom: 10px;}

header h1.logo {margin: 0;font-size: 1.7em;color: #fff;text-transform: uppercase;float: left;}

header h1.logo:hover {color: #fff;text-decoration: none;}

.container {width: 940px;margin: 0 auto;}

div.jumbo{padding: 10px 0 30px 0;background-color: #eeeeee;-webkit-border-radius: 6px;-moz-border-radius: 6px;border-radius: 6px;}

h2 {font-size: 3em;margin-top: 40px;text-align: center;letter-spacing: -2px;}

h3 {font-size: 1.7em;font-weight: 100;margin-top: 30px;text-align: center;letter-spacing: -1px;color: #999;}

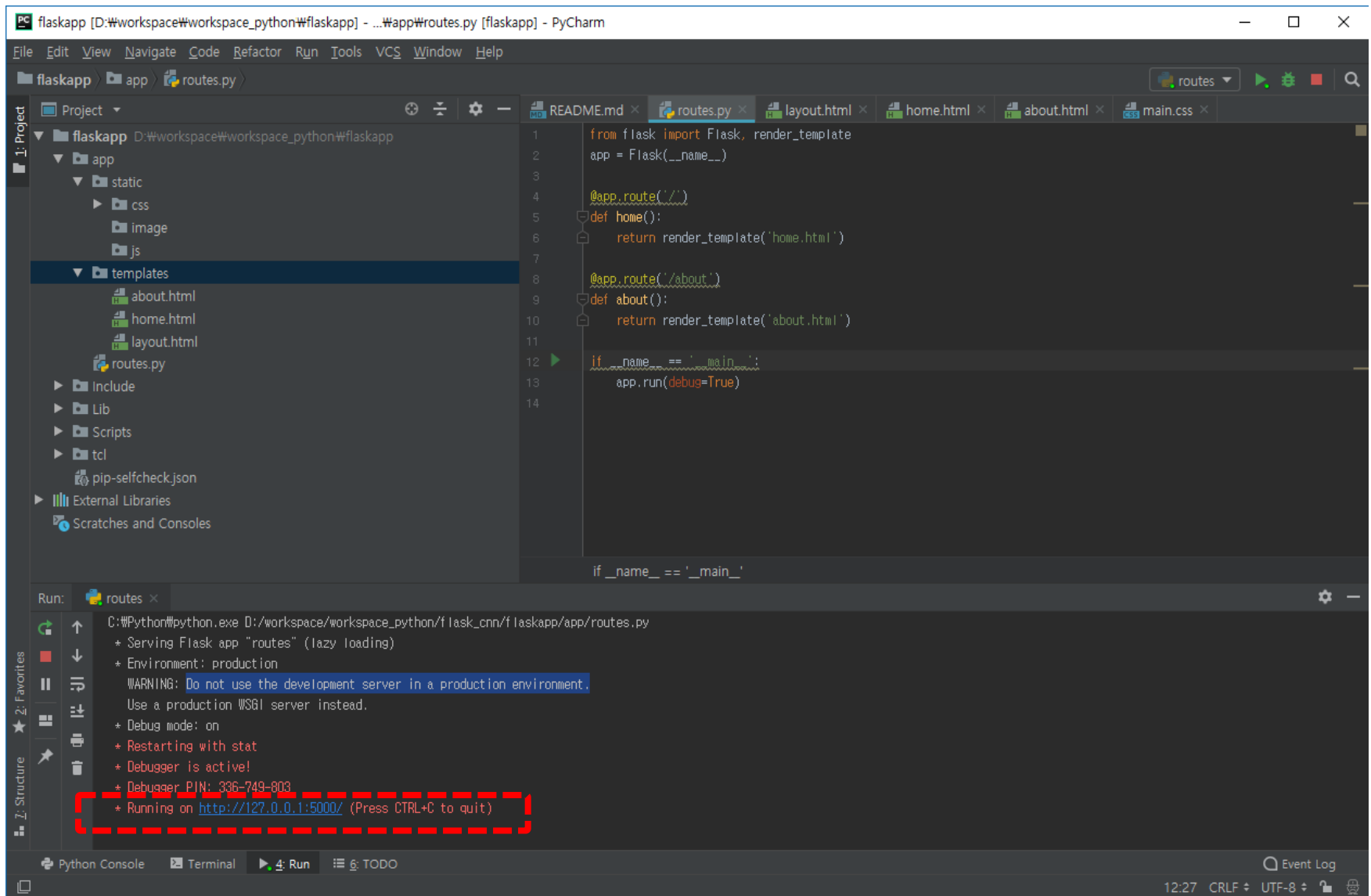
.menu {float: right;margin-top: 8px;}
.menu li {display: inline;}
.menu li + li {margin-left: 35px;}
.menu li a {color: #999;text-decoration: none;}
```

```
from flask import Flask, render_template
app = Flask(__name__)

@app.route('/')
def home():
    return render_template('home.html')

@app.route('/about')
def about():
    return render_template('about.html')

if __name__ == '__main__':
    app.run(debug=True)
```



http://127.0.0.1:5000

