

Flask – Application

In order to test **Flask** installation, type the following code in the editor as **Hello.py**

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

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

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

Importing flask module in the project is mandatory. An object of Flask class is our **WSGI** application.

Flask constructor takes the name of **current module (__name__)** as argument.

The **route()** function of the Flask class is a decorator, which tells the application which URL should call the associated function.

```
app.route(rule, options)
```

The **rule** parameter represents URL binding with the function.

The **options** is a list of parameters to be forwarded to the underlying Rule object.

In the above example, **‘/’** URL is bound with **hello_world()** function. Hence, when the home page of web server is opened in browser, the output of this function will be rendered.

Finally the **run()** method of Flask class runs the application on the local development server.

```
app.run(host, port, debug, options)
```

All parameters are optional

Sr.No.

Parameters & Description

1	host Hostname to listen on. Defaults to 127.0.0.1 (localhost). Set to '0.0.0.0' to have server available externally
2	port Defaults to 5000
3	debug Defaults to false. If set to true, provides a debug information
4	options To be forwarded to underlying Werkzeug server.

The above given **Python** script is executed from Python shell.

```
Python Hello.py
```

A message in Python shell informs you that

```
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Open the above URL (**localhost:5000**) in the browser. **'Hello World'** message will be displayed on it.

Debug mode

A **Flask** application is started by calling the **run()** method. However, while the application is under development, it should be restarted manually for each change in the code. To avoid this inconvenience, enable **debug support**. The server will then reload itself if the code changes. It will also provide a useful debugger to track the errors if any, in the application.

The **Debug** mode is enabled by setting the **debug** property of the **application** object to **True** before running or passing the debug parameter to the **run()** method.

```
app.debug = True
app.run()
app.run(debug = True)
```

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