

# Developing a Simple Webserver

## ' AIM:

To develop a simple webserver to display top five programming languages.

## ' DESIGN STEPS:

### ' Step 1:

HTML content creation

### ' Step 2:

Design of webserver workflow

### ' Step 3:

Implementation using Python code

### ' Step 4:

Serving the HTML pages.

### ' Step 5:

Testing the webserver

## ' PROGRAM:

```
from http.server import HTTPServer, BaseHTTPRequestHandler
content = """
<!DOCTYPE html>
<html>
<head>
<title>My webserver</title>
</head>
<body>
<h1>TOP FIVE PROGRAMMING LANGUAGE</h1>
<h1>1. Java</h1>
<h1>2. SQL</h1>
<h1>3. Javascript</h1>
```

```

<h1>4. C++</h1>
<h1>5. Python</h1>
</body>
</html>
"""

class myhandler(BaseHTTPRequestHandler):
    def do_GET(self):
        print("request received")
        self.send_response(200)
        self.send_header('content-type', 'text/html; charset=utf-8')
        self.end_headers()
        self.wfile.write(content.encode())
server_address = ('',8080)
httpd = HTTPServer(server_address,myhandler)
print("my webserver is running...")
httpd.serve_forever()

```

' **OUTPUT:**

' **CLIENT SIDE OUTPUT:**

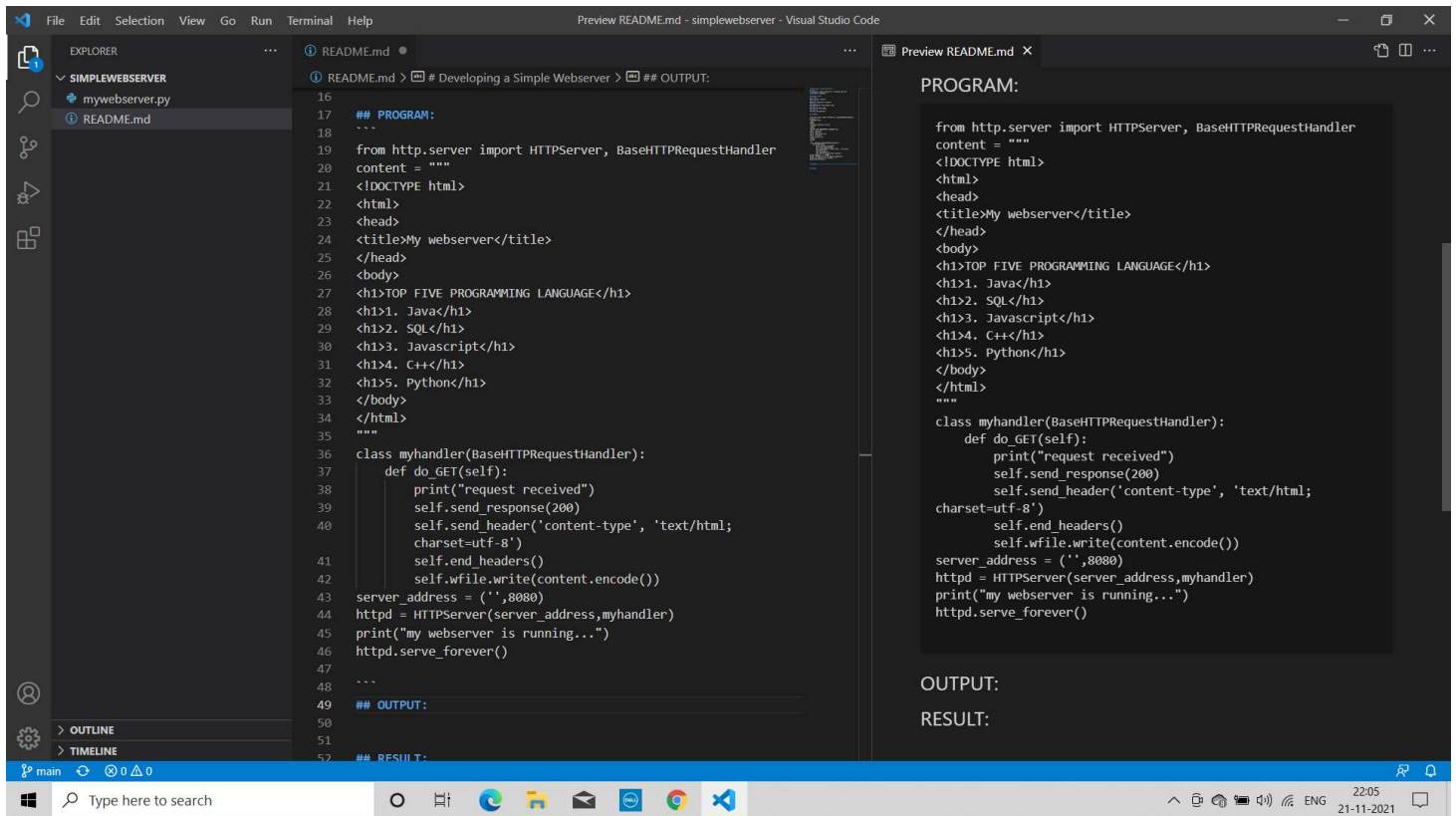


## TOP FIVE PROGRAMMING LANGUAGE

1. Java
2. SQL
3. Javascript
4. C++
5. Python



' **SERVER SIDE OUTPUT:**



The screenshot shows the Visual Studio Code interface with a project named 'SIMPLEWEBSERVER'. The Explorer sidebar on the left shows 'mywebserver.py' and 'README.md'. The main editor displays the 'README.md' file, which contains a Python program and its output. The Python program is a simple webserver that listens on port 8080 and responds to GET requests with an HTML page listing the top five programming languages. The output shows the HTML content being served.

```
16
17
18 ## PROGRAM:
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42             charset=utf-8')
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45 server_address = ('',8080)
46 httpd = HTTPServer(server_address,myhandler)
47 print("my webserver is running...")
48 httpd.serve_forever()
49
50 ---
51 ## OUTPUT:
52
53 ## RESULT:
```

PROGRAM:

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OUTPUT:

RESULT:

## RESULT:

A webserver is developed to display top five programming languages.