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
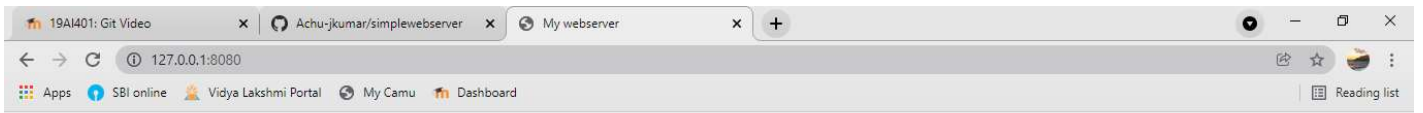
PROGRAM:

```python
from http.server import HTTPServer, BaseHTTPRequestHandler
content = """
<!DOCTYPE html>
<html>
<head>
<title>My webserver</title>
</head>
<body>
<h1>Welcome</h1>
</body>
</html>



class myhandler(BaseHTTPRequestHandler):
```

```python
    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:

Welcome

DESIGN STEPS:
Step 1:
HTML content creation
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PROGRAM:
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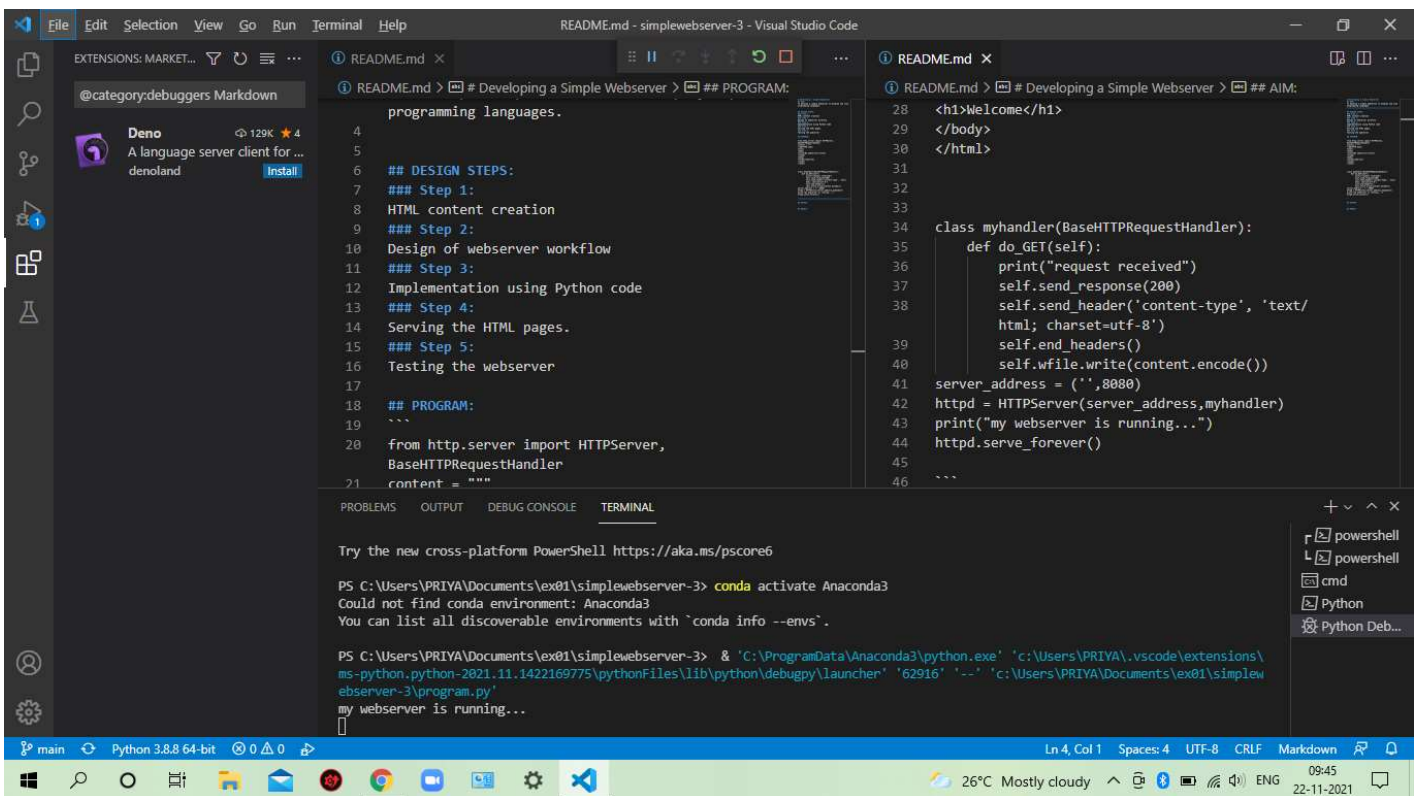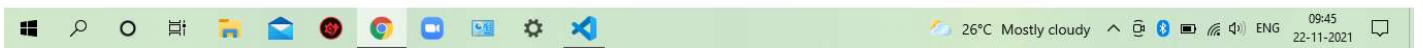
Terminal:
```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\PRIYA\Documents\ex01\simplewebserver-3> conda activate Anaconda3
Could not find conda environment: Anaconda3
You can list all discoverable environments with `conda info --envs`.

PS C:\Users\PRIYA\Documents\ex01\simplewebserver-3> & 'C:\ProgramData\Anaconda3\python.exe' 'c:\Users\PRIYA\.vscode\extensions\
ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '62916' '--' 'c:\Users\PRIYA\Documents\ex01\simplew
ebserver-3\program.py'
my webserver is running...
```

RESULT:

The given program is completed.