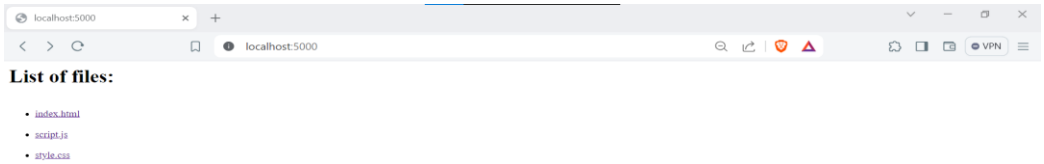
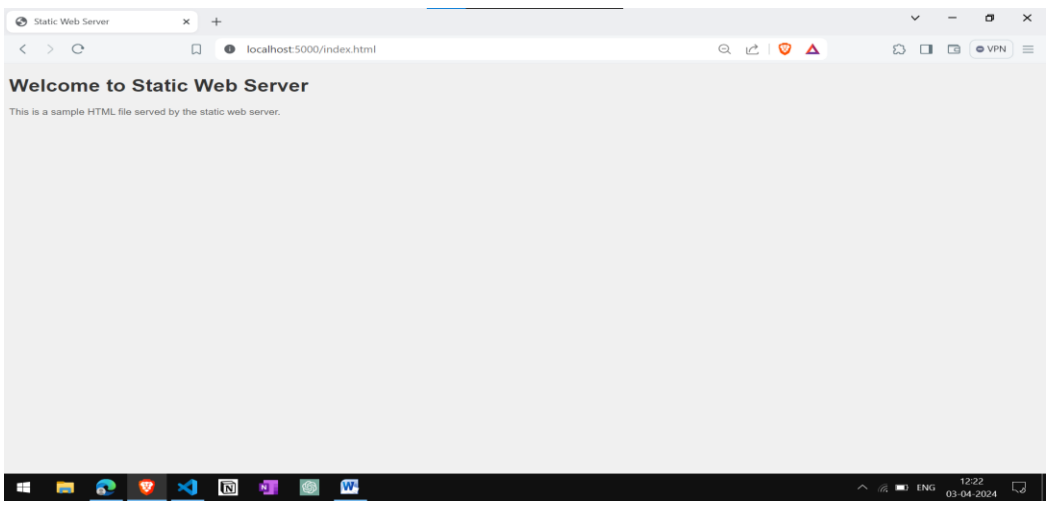
Assignment 3-A: Static Web Server

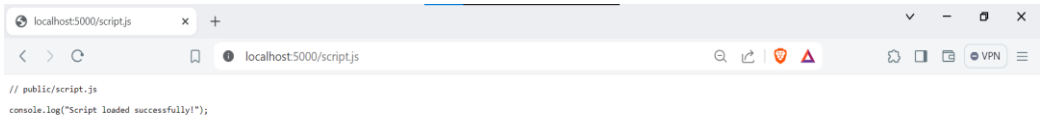
```
// server.js

const http = require('http');
const url = require('url');
const fs = require('fs');
const path = require('path');

const PORT = 5000;

// Define MIME types
const mimeType = {
   '.ico': 'image/x-icon',
   '.html': 'text/html',
   '.js': 'text/javascript',
   '.json': 'application/json',
   '.css': 'text/css',
   '.png': 'image/png',
   '.jpg': 'image/jpeg',
   '.wav': 'audio/wav',
   '.mp3': 'audio/mpeg',
   '.svg': 'image/svg+xml',
   '.pdf': 'application/pdf',
   '.doc': 'application/msword',
   '.eot': 'application/vnd.ms-fontobject',
   '.ttf': 'application/font-sfnt'
};

http.createServer((req, res) => {
   const parsedUrl = url.parse(req.url);
   const sanitizePath = path.normalize(parsedUrl.pathname).replace(/^(\.\.[\/\\])+/, '');
   let pathname = path.join(__dirname, 'public', sanitizePath);

   if (parsedUrl.pathname === "/") {
      const filesList = fs.readdirSync("./public");
      let filesLink = "<ul>";

      filesList.forEach(element => {
         if (fs.statSync("./public/" + element).isFile()) {
            filesLink += `<br/><li><a href='./${element}'>${element}</a></li>`;
         }
      });

      filesLink += "</ul>";
      res.setHeader('Content-type', 'text/html');
      res.end("<h1>List of files:</h1> " + filesLink);
   } else {
```

```
    if (!fs.existsSync(pathname)) {
      res.statusCode = 404;
      res.end(`File ${pathname} not found!`);
    } else {
      fs.readFile(pathname, function (err, data) {
        if (err) {
          res.statusCode = 500;
          res.end(`Error in getting the file.`);
        } else {
          const ext = path.parse(pathname).ext;
          res.setHeader('Content-type', mimeType[ext] || 'text/plain');
          res.end(data);
        }
      });
    }
  }
}).listen(PORT, () => {
  console.log(`Server is running on port ${PORT}`);
});
```

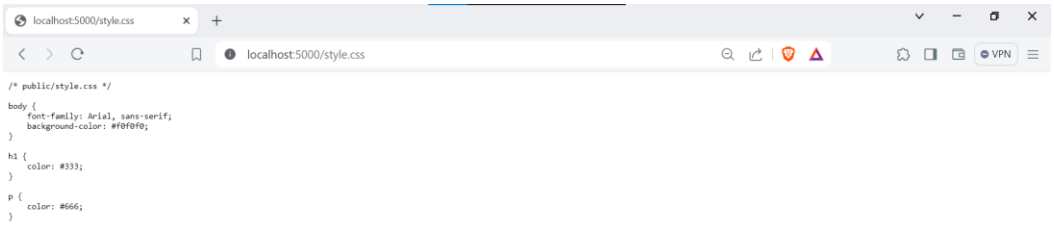
Screenshots






localhost:5000/script.js
localhost:5000/script.js
VPN
// public/script.js
console.log("Script loaded successfully!");


ENG
12:22
03-04-2024


localhost:5000/style.css
localhost:5000/style.css
VPN
/* public/style.css */
body {
font-family: Arial, sans-serif;
background-color: #f0f0f0;
}
h1 {
color: #333;
}
p {
color: #666;
}


ENG
12:22
03-04-2024