Assignment No. 3A

Index.html

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

const PORT = 1800;
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);
    if (parsedUrl.pathname === '/') {
        var filesList = fs.readdirSync("./public/");
        var filesLink = "<ul>";
        filesList.forEach(element => {
            if (fs.statSync("./public/" + element).isFile()) {
                filesLink += `<li><a
href='./${element}'>${element}</a></li>`;
            }
        });
        filesLink += "</ul>";
        var html = `
        <!DOCTYPE html>
        <html>
        <head>
            <meta charset="UTF-8">
            <title>Directory Listing</title>
            <style>
                body {
                    font-family: Arial, Helvetica, sans-serif;
                    background-color: #f4f4ff;
                }
                h1 {
                    text-align: center;
                    color: #555;
                }
                ul {
                    list-style: none;
                    padding: 0;
                    margin: 0;
                }
                li {
                    margin-bottom: 10px;
                    background-color: #fff;
                    padding: 1rem ;
                    border-radius: 5px;
                    width: 30%;
                    margin: 1rem auto;
                }
                a {
                    text-decoration: none;
                    font-weight: bold;
                }
                a:hover {
                    text-decoration: underline;
                }
            </style>
        </head>
        <body>
            <h1>Welcome To My Web Server <br></h1>
            <h2 style="text-align: center"> We have
following files to offer</h2>
            <hr>
            ${filesLink}
        </body>
        </html>
    `;
        res.setHeader('Content-type', 'text/html');
        res.end(html);
    } else {
        const sanitizePath =
path.normalize(parsedUrl.pathname).replace(/^(\.\.[\/\\]
)+/, '');
        let pathname = path.join(__dirname + "/public",
sanitizePath);
```

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

Output: