Task 01 (FULL STACK DEVELOPMENT)
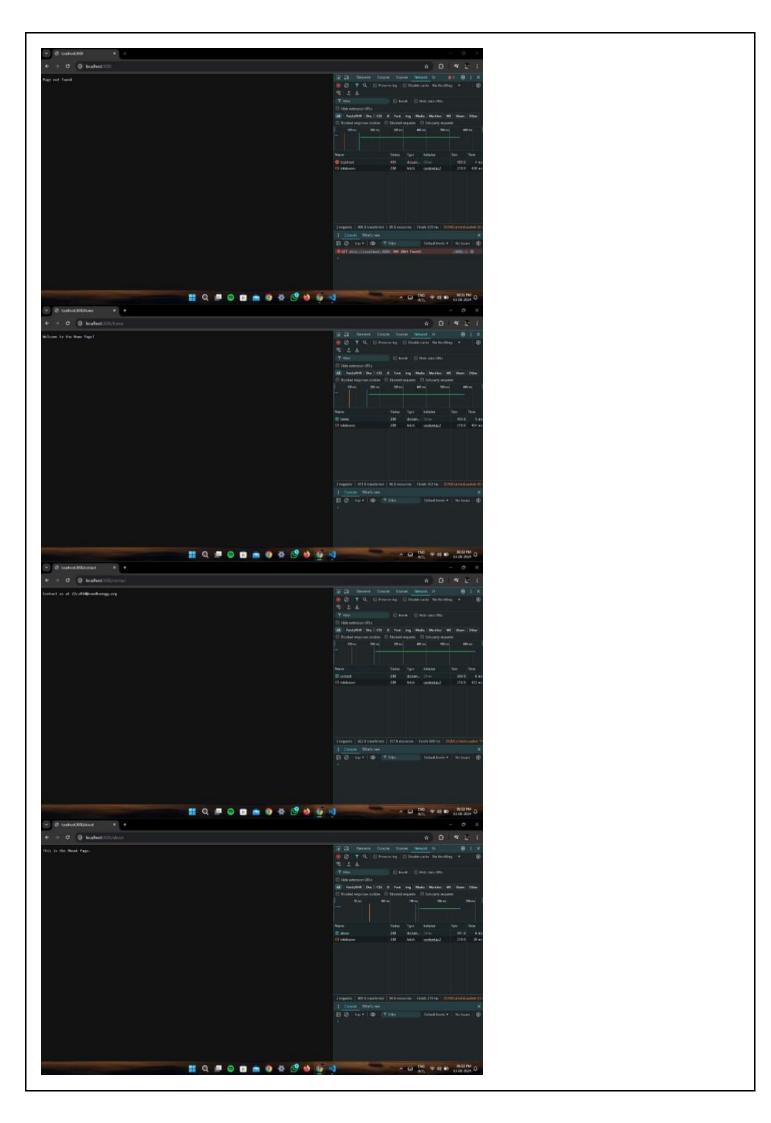
1.Create a Node.js server to implement routes for /home, /about, and /contact that respond with different messages for each route.

Program:

```
const http = require('http');
const server = http.createServer((req, res) => {
 res.setHeader('Content-Type', 'text/plain');
 if (req.url === '/home') {
   res.writeHead(200);
   res.end('Welcome to the Home Page!');
 } else if (req.url === '/about') {
   res.writeHead(200);
   res.end('This is the About Page.');
 } else if (req.url === '/contact') {
   res.writeHead(200);
   res.end('Contact us at 22cs050@nandhaengg.org');
 } else {
   res.writeHead(404);
   res.end('Page not found');
 }
});
const port = 3000;
server.listen(port, () => {
 console.log(`Server is running on http://localhost:${port}`);
});
```

output :

Server is running on http://localhost:3000

Page not found

Welcome to the Home Page!

Contact us at 22cs0930@sundhaengg.org

This is the About Page.

2.Build a server with a route /greet that accepts a query parameter name and responds with a personalized greeting message, e.g., "Hello, [name]!"

Program:

```
const http = require('http');
const url = require('url');
const server = http.createServer((req, res) => {
 res.setHeader('Content-Type', 'text/plain');
 const parsedUrl = url.parse(req.url, true);
 if (parsedUrl.pathname === '/greet') {
  const name = parsedUrl.query.name;
  if (name) {
   res.writeHead(200);
   res.end(`Hello, ${name}!`);
  } else {
   res.writeHead(400);
   res.end('Name query parameter is missing');
  }
 } else {
  res.writeHead(404);
  res.end('Page not found');
 }});

const port = 3000;
server.listen(port, () => {
 console.log(`Server is running on http://localhost:${port}`);
});
```

output :
Server is running on http://localhost:3000

Page not found

Hello, Mohana Prasath!