**Task 1: Simple Web Server**

Create a simple HTTP web server using Node.js that responds with "Hello, World!" to all incoming requests.

Solution:

const http = require("http");

// Create an HTTP server

const server = http.createServer((req, res) => {

  // Set the response header

  res.writeHead(200, { "Content-Type": "text/plain" });

  // Sending the response

  res.end("Hello, World!\n");

});

// Start the server on port 3000

const port = 3000;

server.listen(3000, () => {

  console.log(`Server listening at port http://localhost:3000/`);

});

**Task 2: FS Module**

**Create a Node.js script that reads the content from the "data.txt" file and displays it on the console.**

const fs = require("fs");

// Read the content from the "data.txt" file

fs.readFile("data.txt", "utf8", (err, data) => {

  if (err) {

    console.error("Error reading the file:", err);

    return;

  }

  // Display the content on the console

  console.log('Content of "data.txt":', data);

});

**Task 3: Asynchronous Programming**

**Create a Node.js script that reads two text files, "file1.txt" and "file2.txt," and combines their content into a new file named "combined.txt."**

const fs = require("fs");

// Read the content from "file1.txt"

fs.readFile("file1.txt", "utf8", (err1, data1) => {

  if (err1) {

    console.error("Error reading file1.txt:", err1);

    return;

  }

  // Read the content from "file2.txt"

  fs.readFile("file2.txt", "utf8", (err2, data2) => {

    if (err2) {

      console.error("Error reading file2.txt:", err2);

      return;

    }

    // Combine the content

    const combinedContent = data1 + "\n" + data2;

    // Write the combined content to "combined.txt"

    fs.writeFile("combined.txt", combinedContent, "utf8", (err3) => {

      if (err3) {

        console.error("Error writing combined.txt:", err3);

        return;

      }

      console.log(

        "Content from file1.txt and file2.txt has been combined into combined.txt"

      );

    });

  });

});