WPT ASSIGNMENT-(16-12-22)

PRAJWAL 77

Create a module and import it in other programs

Install a module/package using npm

3.Write a program to create a new file and write some content to it in synchronous mode and read and display file contents on standard output in async mode

Build a simple Node.js web application serving both HTTP GET and POST methods

Q1

MYMATH.JS

```
export function sum(n1, n2) {
    return n1 + n2;
}

export function mul(n1, n2) {
    return n1 * n2;
}
```

MAIN.JS

```
import { sum } from "./mymath.js";
import { mul } from "./mymath.js";

function main() {
  let output = sum(1, 1);
  console.log("Output", output);

  let output1 = mul(2, 5);
  console.log("Mul", output1);
}

main();
```

OUTPUT:-

```
// writestream
// fs write.js
import { open, write, close } from 'fs';
// specify the path to the file, and create a buffer with characters we want
to write
let path = "E:\\DAC KOCHI\\hello1.txt";
let buffer = new Buffer('YOU KNOW? ....STYLE IS A WAY TO SAY WHO YOU ARE
WITHOUT SPEAKING...');
// open the file in writing mode, adding a callback function where we do the
actual writing
open(path, 'w', function(err, fd) {
    if (err) {
        throw 'could not open file: ' + err;
    // write the contents of the buffer, from position 0 to the end, to the
file descriptor returned in opening our file
    write(fd, buffer, 0, buffer.length, null, function(err) {
        if (err) throw 'error writing file: ' + err;
        close(fd, function() {
            console.log('wrote the file successfully');
        });
    });
```

Reading file

```
// import {sum} from "./mymath.js"; // local module
import { readFile } from "node:fs/promises"; // node fs module

async function main() {
   console.log("READ FILE DEMO");

   let filepath = "E:\\DAC KOCHI\\hello1.txt";

   // let output = readFile(filepath);
   // let output = await readFile(filepath);
   let output = await readFile(filepath), { encoding: "utf8" });

   console.log(output);
}

main();
```

FINAL OUTPUT: -

```
PROBLEMS SOL CONSOLE OUTPUT DEBUG CONSOLE TERMINAL

Code 

DEBUG CONSOLE TERMINAL

Code

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DEBUG CONSOLE TERMINAL

Code

DEBUG CONSOLE TERMINAL

ENDING:

[Done] exited with code=0 in 0.342 seconds

DEBUG CONSOLE TERMINAL

TERMINAL

TERMINAL

Code

DEBUG CONSOLE TERMINAL

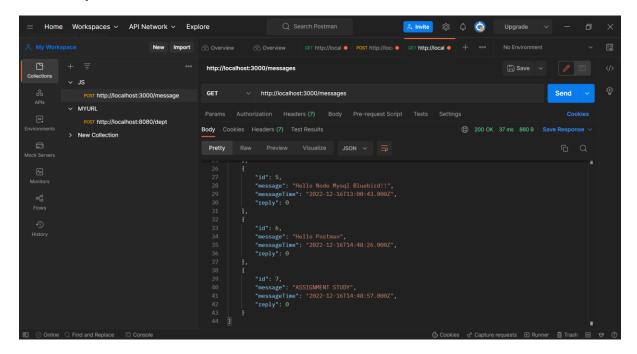
TERMIN
```

Q4&2 .SIMPLE NODEJS-WEB APPLICATION -

```
import express from "express";
import { createConnection } from "mysql";
import bluebird from "bluebird";
const app = express();
app.use(express.json());
app.use(express.urlencoded({ extended: true }));
/* http://localhost:3000/messages */
app.get("/messages/", async (req, res) => {
 let connectUri = {
   host: "localhost",
   user: "root",
   password: "Prajwal@123",
   database: "cdac",
  let connection = createConnection(connectUri);
  bluebird.promisifyAll(connection);
  await connection.connectAsync();
  // let sql = `SELECT * FROM message ORDER BY id DESC`;
  let sql = `SELECT * FROM message`;
  let results = await connection.queryAsync(sql);
  await connection.endAsync();
 res.json(results);
});
/* http://localhost:3000/message */
app.post("/message", async (req, res) => {
 let connectUri = {
```

```
host: "localhost",
    user: "root",
    password: "Prajwal@123",
    database: "cdac",
  };
  let connection = createConnection(connectUri);
  bluebird.promisifyAll(connection);
  await connection.connectAsync();
  let message = req.body.message;
  let reply = req.body.reply;
  let sql = `INSERT INTO message (message, reply) VALUES ('${message}',
${reply})`;
  await connection.queryAsync(sql);
  connection.endAsync();
 res.json({ msg: "Record added!" });
});
app.listen(3000);
```

GET-REQ -OUTPUT



POST -REQ OUTPUT-

