WPT ASSIGNMENT (15-12-2022)

PRAJWAL_77

1. Assignment on JavaScript callback functions

```javascript
// 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\\tp.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');
        });
    });
});
```
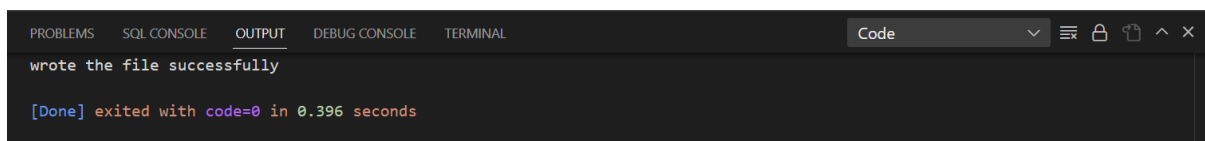
Output:-


```
PROBLEMS   SQL CONSOLE   OUTPUT   DEBUG CONSOLE   TERMINAL                          Code        ∨  ≡×  🔒  🗗  ∧  ✕
wrote the file successfully

[Done] exited with code=0 in 0.396 seconds
```

Example -2

```javascript
// write_stream.js

import { createWriteStream } from 'fs';

let writeStream = createWriteStream('secret.txt');

// write some data with a base64 encoding
```

```
writeStream.write('MIND YOUR OWN BUSINESS', 'base64');

// the finish event is emitted when all data has been flushed from the stream
writeStream.on('finish', () => {
    console.log('wrote all data to file');
});

// close the stream
writeStream.end();
```

```
[Done] exited with code=0 in 0.393 seconds

[Running] node "d:\DAC-WPT\node-project-demo\src\main3.js"
wrote all data to file

[Done] exited with code=0 in 0.342 seconds
```

Q2. Assignment on Timers, Promises, and Async & Await

```
// 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\\hello.txt";

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

  console.log(output);
}

main();
```

OUTPUT: -

PROBLEMS   SQL CONSOLE   OUTPUT   DEBUG CONSOLE   TERMINAL   Code   ∨ ≣ 🔒 🗂 ⌃ ✕
  wrote all data to file

 [Done] exited with code=0 in 0.342 seconds

 [Running] node "d:\DAC-WPT\node-project-demo\src\main1.js"
 READ FILE DEMO
 HEY....ALEXA ..LET THEM KNOW THIS IS NONE OF YOUR BUSINNESS

 [Done] exited with code=0 in 0.44 seconds