**NODE JS**

**1.File system:**

const fs = require('fs');

Read:

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

if (err) {

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

return;

}

console.log('File content:', data);

});

Write:

const contentToWrite = 'This is some content to write to the file.';

fs.writeFile('newFile.txt', contentToWrite, (err) => {

if (err) {

console.error('Error writing to file:', err);

return;

}

console.log('File has been written successfully.');

});

Rename:

fs.rename('oldFile.txt', 'newName.txt', (err) => {

if (err) {

console.error('Error renaming file:', err);

return;

}

console.log('Renamed successfully.');

});

Append:

const contentToAppend = '\nThis is the file.';

fs.appendFile('existingFile.txt', contentToAppend, (err) => {

if (err) {

console.error('Error appending to file:', err);

return;

}

console.log('Content has been appended to the file.');

});

**2.OS:**

**i)Platform Information:**

os.platform()

os.arch()

**ii)System Information:**

os.cpus()

os.totalmem()

**iii)User Information:**

os.userInfo()

**iv)Network Interfaces:**

os.networkInterfaces()

**v)File System Paths:**

os.homedir()

os.tmpdir()

**vi)System Uptime:**

os.uptime(): Get the system uptime in seconds.

//Code:

const os = require('os');

console.log(os.platform());

console.log(os.arch());

console.log(os.cpus());

console.log(os.totalmem());

console.log(os.userInfo());

3)Http and Https :

**i)http code**

const http = require('http');

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

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

res.end('Hello World!\n');

});

server.listen(3000, () => {

console.log('HTTP Server running at http://localhost:3000/');

});

**ii)Https code:**

const https = require('https');

const fs = require('fs');

const options = {

key: fs.readFileSync('private-key.pem'),

cert: fs.readFileSync('public-cert.pem')

};

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

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

res.end('Hello World Securely!\n');

});

server.listen(443, () => {

console.log('HTTPS Server running at https://localhost/');

});

**Import:**

import { add, subtract } from './math.js';

console.log(add(5, 3));

console.log(subtract(5, 3));

**Export:**

export const add = (a, b) => a + b;

export const subtract = (a, b) => a - b;