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Batch-A2

Class: FYMCA -A

Rollno:31

**Assignment** **no-3**

Title-Create a Node.js program that facilitates the  
transfer of textual data from one file to another. The program must efficiently  
read the contents of a specified text file and write them into a new file.

const fs = require('fs');

const readline = require('readline');

const inputFileName = 'input.txt';

const outputFileName = 'output.txt';

const rl = readline.createInterface({

input: process.stdin,

output: process.stdout

});

function getInput() {

return new Promise((resolve, reject) => {

rl.question('Enter arithmetic operation (add/subtract/multiply) followed by operands (space-separated), or type "exit" to finish: ', (input) => {

resolve(input);

});

});

}

async function main() {

fs.writeFileSync(inputFileName, ''); // Clearing input file initially

let input = await getInput();

while (input.trim().toLowerCase() !== 'exit') {

const line = input.trim() + '\n';

fs.appendFileSync(inputFileName, line);

console.log('Input appended to input file.');

input = await getInput();

}

rl.close();

performArithmetic(inputFileName, outputFileName);

}

function performArithmetic(inputFile, outputFile) {

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

if (err) {

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

return;

}

const lines = data.trim().split('\n');

const results = [];

lines.forEach(line => {

const [operation, ...operands] = line.split(' ');

const numbers = operands.map(Number);

let result;

switch (operation.toLowerCase()) {

case 'add':

result = numbers.reduce((acc, curr) => acc + curr, 0);

results.push(`What is the sum of ${operands.join(', ')}? ${result}`);

break;

case 'subtract':

result = numbers.reduce((acc, curr) => acc - curr);

results.push(`What is the result of subtracting ${operands.slice(1).join(', ')} from ${operands[0]}? ${result}`);

break;

case 'multiply':

result = numbers.reduce((acc, curr) => acc \* curr, 1);

results.push(`What is the product of ${operands.join(' and ')}? ${result}`);

break;

default:

console.error(`Invalid operation: ${operation}`);

}

});

fs.writeFile(outputFile, results.join('\n'), (err) => {

if (err) {

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

return;

}

console.log('Arithmetic operations performed and results written to', outputFile);

});

});

}

main();

---------------------------------OUTPUT-------------------------------------





