Лабораторна робота № 1

Робота з файлами, JSON, об’єктами, модулями, npm, lodash, nodemon, yargs

Index.js

const \_ = require('lodash');

const numbers = [1, 2, 3, 4, 5];

const squaredNumbers = \_.map(numbers, n => n \* n);

console.log("Squared numbers:", squaredNumbers);

const evenNumbers = \_.filter(numbers, n => n % 2 === 0);

console.log("Even numbers:", evenNumbers);

const sum = \_.reduce(numbers, (acc, n) => acc + n, 0);

console.log("Sum of numbers:", sum);

const sortedNumbers = \_.sortBy(numbers, n => -n);

console.log("Sorted numbers:", sortedNumbers);

const duplicateNumbers = [1, 2, 3, 3, 4, 4, 5, 5];

const uniqueNumbers = \_.uniq(duplicateNumbers);

console.log("Unique numbers:", uniqueNumbers);

package-lock.json

{

  "name": "lab1",

  "lockfileVersion": 3,

  "requires": true,

  "packages": {

    "": {

      "dependencies": {

        "loads": "^0.0.4",

        "lodash": "^4.17.21"

      }

    },

    "node\_modules/failure": {

      "version": "1.1.1",

      "resolved": "https://registry.npmjs.org/failure/-/failure-1.1.1.tgz",

      "integrity": "sha512-lzrrk0NUfjVeU3jLmfU01zP5bfg4XVFxHREYGvgJowaCqHLSQtqIGENH/CU+oSs6yfYObdSM7b9UY/3p2VJOSg=="

    },

    "node\_modules/loads": {

      "version": "0.0.4",

      "resolved": "https://registry.npmjs.org/loads/-/loads-0.0.4.tgz",

      "integrity": "sha512-XjPzzYIHkuMNqYyvh6AECQAHi682nyKO9TMdMYnaz7QbPDI/KIeSIjRhAlXIbRMPYAgtLUYgPlD3mtKZ4Q8SYA==",

      "dependencies": {

        "failure": "1.1.x",

        "one-time": "0.0.x",

        "xhr-response": "1.0.x",

        "xhr-status": "1.0.x"

      }

    },

    "node\_modules/lodash": {

      "version": "4.17.21",

      "resolved": "https://registry.npmjs.org/lodash/-/lodash-4.17.21.tgz",

      "integrity": "sha512-v2kDEe57lecTulaDIuNTPy3Ry4gLGJ6Z1O3vE1krgXZNrsQ+LFTGHVxVjcXPs17LhbZVGedAJv8XZ1tvj5FvSg=="

    },

    "node\_modules/one-time": {

      "version": "0.0.4",

      "resolved": "https://registry.npmjs.org/one-time/-/one-time-0.0.4.tgz",

      "integrity": "sha512-qAMrwuk2xLEutlASoiPiAMW3EN3K96Ka/ilSXYr6qR1zSVXw2j7+yDSqGTC4T9apfLYxM3tLLjKvgPdAUK7kYQ=="

    },

    "node\_modules/xhr-response": {

      "version": "1.0.1",

      "resolved": "https://registry.npmjs.org/xhr-response/-/xhr-response-1.0.1.tgz",

      "integrity": "sha512-m2FlVRCl3VqDcpc8UaWZJpwuHpFR2vYeXv6ipXU2Uuu4vNKFYVEFI0emuJN370Fge+JCbiAnS+JJmSoWVmWrjQ=="

    },

    "node\_modules/xhr-status": {

      "version": "1.0.1",

      "resolved": "https://registry.npmjs.org/xhr-status/-/xhr-status-1.0.1.tgz",

      "integrity": "sha512-VF0WSqtmkf56OmF26LCWsWvRb1a+WYGdHDoQnPPCVUQTM8CVUAOBcUDsm7nP7SQcgEEdrvF4DmhEADuXdGieyw=="

    }

  }

}

package.json

{

  "dependencies": {

    "loads": "^0.0.4",

    "lodash": "^4.17.21"

  }

}

Task01.js

console.log("Hello, World!");

task2.js

const fs = require('fs');

const newLine = "Це новий рядок для додавання до файлу.\n";

function appendToFile(filePath, data) {

    fs.appendFile(filePath, data, (err) => {

        if (err) throw err;

        console.log('Рядок успішно додано до файлу.');

    });

}

const filePath = 'text.txt';

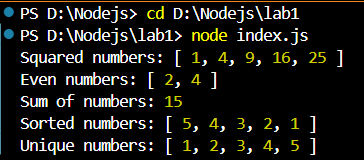
appendToFile(filePath, newLine);

task3.js

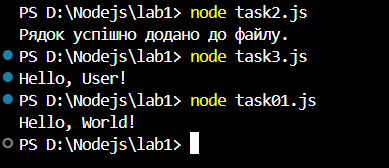
const os = require('os');

const userName = os.userInfo().username;

console.log(`Hello, ${userName}!`);



Результат завдань.1



Результат завдань.2