NodeJS

Задача 1

Код

```
let fs = require('fs')

let text = fs.readFileSync('file.txt', { encoding: "utf-8" });
let arr = text.split('');
arr = arr.reverse();
text = arr.join('');
fs.writeFileSync('file.txt', text, { encoding: "utf-8" });
```

Текст до выполнения

```
G:\СП>type file.txt
Textinfile
G:\СП>
```

Текст после выполнения

```
G:\СП>node task_1.js

G:\СП>type file.txt
elifnitxeT
G:\СП>
```

Задача 2

```
const http = require("http");
const parse = require('co-body');

const server = http.createServer (async function(req, res) {
if (req.method === 'GET') {
    let fs = require('fs');
    let fileContent = fs.readFileSync('file.txt', 'utf8');
    res.write(fileContent)
    res.end()
} else if (req.method === 'POST'){
    const body = await parse.json(req)
    res.end(JSON.stringify(body))
}
});
```

NPM

- Инициализировать проект

```json
{
  "name": "todoapp",
  "version": "1.0.0",
  "description": "todolist",
  "main": "script.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "repository": {
    "type": "git",
    "url": "git+https://github.com/zykovnd/ToDoApp.git"
  },
  "keywords": [
    "project"
  ],
  "author": "",
  "license": "ISC",
  "bugs": {
    "url": "https://github.com/zykovnd/ToDoApp/issues"
  },
  "homepage": "https://github.com/zykovnd/ToDoApp#readme"
}
```

- Поставить библиотеку lodash

```
PS C:\repos\JavaScript\ToDoApp\ToDoApp> npm i lodash

added 1 package, and audited 2 packages in 1s
```

- Подключить её и отсортировать массив объектов по полю age (можно использовать метод sortBy):

```
PS C:\repos\JavaScript\ToDoApp\ToDoApp> node ex.js
[
  { user: 'barney', age: 34 },
  { user: 'barney', age: 36 },
  { user: 'fred', age: 40 },
  { user: 'fred', age: 48 }
]
PS C:\repos\JavaScript\ToDoApp\ToDoApp>
```

- Вызвать написанный код через npm run (используется поле script).

```json
{} package.json > {} scripts > 🔤 func
1    {
2      "name": "todoapp",
3      "version": "1.0.0",
4      "description": "todolist",
5      "main": "script.js",
       ▷ Debug
6      "scripts": {
7        "test": "echo \"Error: no test specified\" && exit 1",
8        "func": "node ex.js"
9      },
10     "repository": {
11       "type": "git",
12       "url": "git+https://github.com/zykovnd/ToDoApp.git"
13     },
14     "keywords": [
15       "project"
16     ],
17     "author": "",
18     "license": "ISC",
19     "bugs": {
20       "url": "https://github.com/zykovnd/ToDoApp/issues"
21     },
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
    at Function.executeUserEntryPoint [as runMain] (node:internal/modules/run_main:135:12)
    at node:internal/main/run_main_module:28:49

Node.js v20.12.2
PS C:\repos\JavaScript\ToDoApp\ToDoApp> node ex.js
[
  { user: 'barney', age: 34 },
  { user: 'barney', age: 36 },
  { user: 'fred', age: 40 },
  { user: 'fred', age: 48 }
]
PS C:\repos\JavaScript\ToDoApp\ToDoApp> npm run func

> todoapp@1.0.0 func
> node ex.js

[
  { user: 'barney', age: 34 },
  { user: 'barney', age: 36 },
  { user: 'fred', age: 40 },
  { user: 'fred', age: 48 }
]
PS C:\repos\JavaScript\ToDoApp\ToDoApp>
```