Latihan NodeJS NPM

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Membuat Project

- Buat folder untuk project
- Masuk ke folder project melalui terminal/command line
- Buat project NPM baru dengan perintah :
  npm init

Kode : package.json

```json
{
    "name": "belajar-nodejs-npm",
    "version": "1.0.0",
    "description": "belajar dasar nodejs dengan npm",
    "main": "index.js",
    "scripts": {
        "test": "echo \"Error: no test specified\" && exit 1"
    },
    "keywords": [
        "npm",
        "nodejs"
    ],
    "author": "Rohmat Arief Budiarto [RAB]",
    "license": "ISC"
}
```

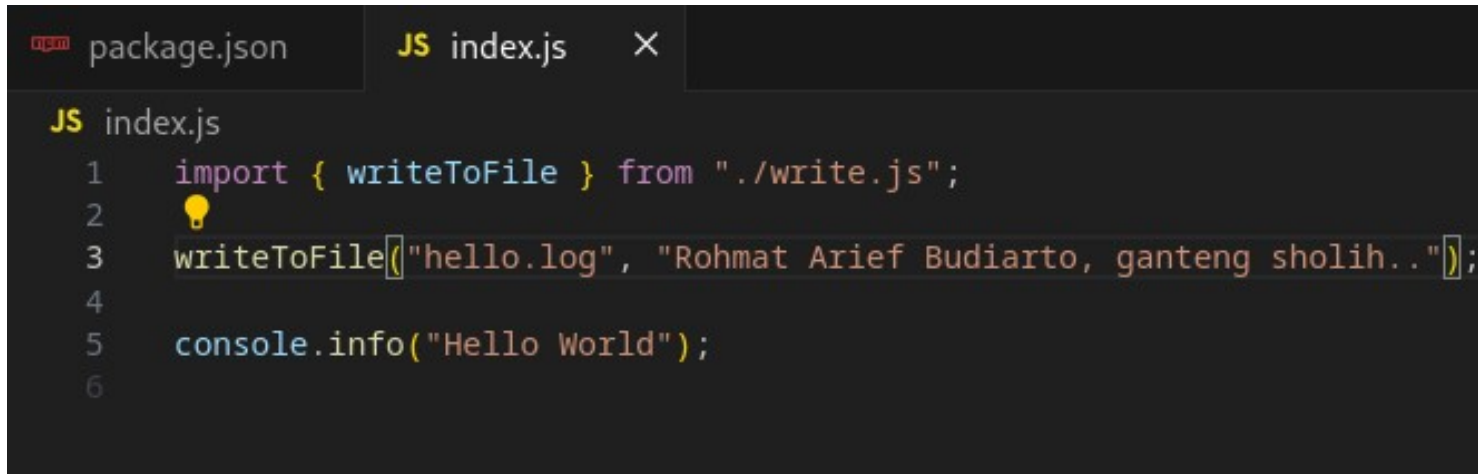# Project Type

Kode : package.json (menambahkan type "module"


```json
{
    "name": "belajar-nodejs-npm",
    "version": "1.0.0",
    "description": "belajar dasar nodejs dengan npm",
    "main": "index.js",
    ▷ Debug
    "scripts": {
      "test": "echo \"Error: no test specified\" && exit 1"
    },
    "keywords": [
      "npm",
      "nodejs"
    ],
    "type": "module",
    "author": "Rohmat Arief Budiarto [RAB]",
    "license": "ISC"
}
```

Kode : Write

```js
import fs from "fs"

export const writeToFile = (file, content) => {
    fs.writeFileSync(file, content)
}
```

Kode : Index

```
package.json    JS index.js    ✕

JS index.js
  1    import { writeToFile } from "./write.js";
  2    💡
  3    writeToFile("hello.log", "Rohmat Arief Budiarto, ganteng sholih..");
  4
  5    console.info("Hello World");
  6
```

Kode : package.json

```json
package.json •

package.json > {} scripts
1  {
2      "name": "belajar-nodejs-npm",
3      "version": "1.0.0",
4      "description": "belajar dasar nodejs dengan npm",
5      "main": "index.js",
       ▷ Debug
6      "scripts": {
7          "run":"index.js",
8          "test": "echo \"Error: no test specified\" && exit 1"
9      },
10     "keywords": [
11         "npm",
12         "nodejs"
13     ],
14     "type": "module",
15     "author": "Rohmat Arief Budiarto [RAB]",
16     "license": "ISC"
17  }
18
```

Kode : Run Script

Kode : Start Script

```json
package.json ✕

package.json > {} scripts
1    {
2      "name": "belajar-nodejs-npm",
3      "version": "1.0.0",
4      "description": "belajar dasar nodejs dengan npm",
5      "main": "index.js",
       ▷ Debug
6      "scripts": {
7        "run": "node index.js",
8        "prestart": "echo 'Sebelum aplikasi berjalan'",
9        "start": "node index.js",
10       "poststart": "echo 'Setelah aplikasi berjalan'",
11       "test": "echo \"Error: no test specified\" && exit 1"
12     },
13     "keywords": [
14       "npm",
15       "nodejs"
16     ],
17     "type": "module",
18     "author": "Rohmat Arief Budiarto [RAB]",
19     "license": "ISC"
20   }
```

Kode : Menjalankan Start Script

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

[RAB@fedora belajar-nodejs-npm]$ npm start

> belajar-nodejs-npm@1.0.0 prestart
> echo 'Sebelum aplikasi berjalan'

Sebelum aplikasi berjalan

> belajar-nodejs-npm@1.0.0 start
> node index.js

Hello World

> belajar-nodejs-npm@1.0.0 poststart
> echo 'Setelah aplikasi berjalan'

Setelah aplikasi berjalan
[RAB@fedora belajar-nodejs-npm]$
```
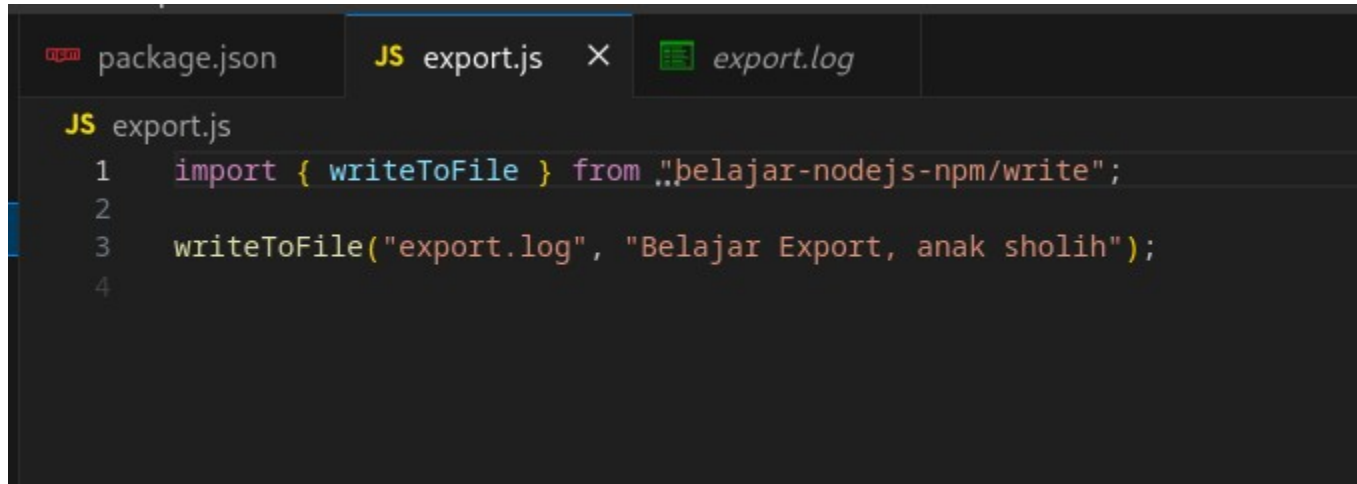
Kode : Exports

```
22  ▶      "start": "node index.js",
23  ▶      "poststart": "echo 'After Application Start'",
24  ▶      "test": "echo \"Error: no test specified\" && exit 1"
25      },
26      "exports": {
27          ".": "./index.js",
28          "./write": "./write.js"
29      }
30  }
31
```
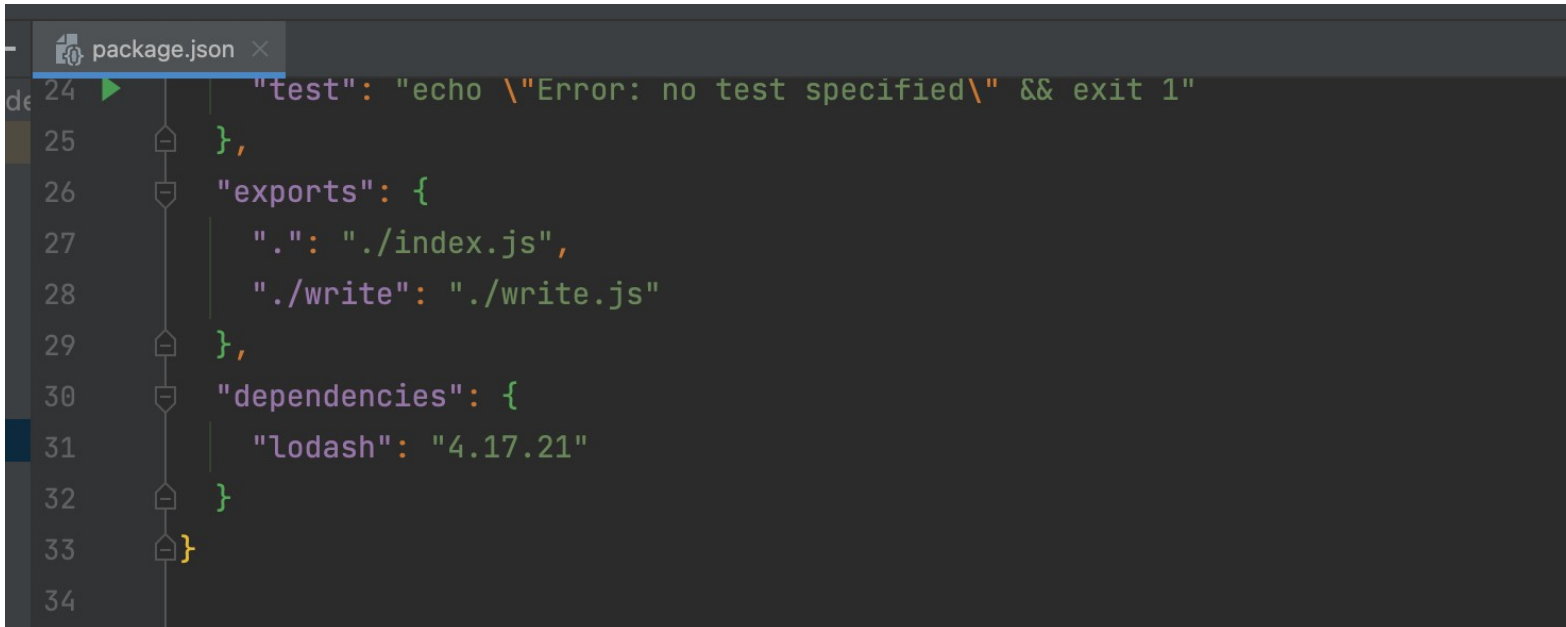
Kode : Menggunakan Module


```
package.json        JS  export.js    ✕        export.log

JS  export.js
  1     import { writeToFile } from "belajar-nodejs-npm/write";
  2
  3     writeToFile("export.log", "Belajar Export, anak sholih");
  4
```

Kode : Menambah Dependency

```json
        "test": "echo \"Error: no test specified\" && exit 1"
    },
    "exports": {
        ".": "./index.js",
        "./write": "./write.js"
    },
    "dependencies": {
        "lodash": "4.17.21"
    }
}
```
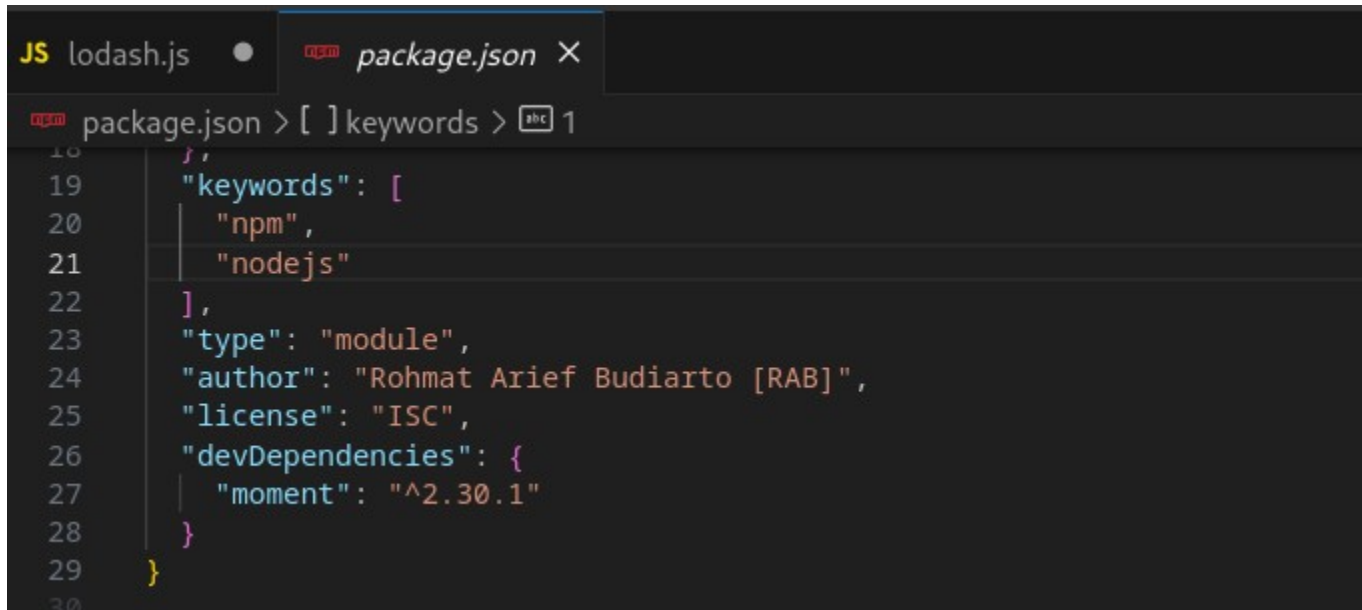
Kode : Menggunakan Dependency

```js
import _ from "lodash";

const name = "INFORMATIKA UNUGHA 4A";
const hasil = _.capitalize(name);

console.info(hasil);
```

Kode : Development Dependency dalam json
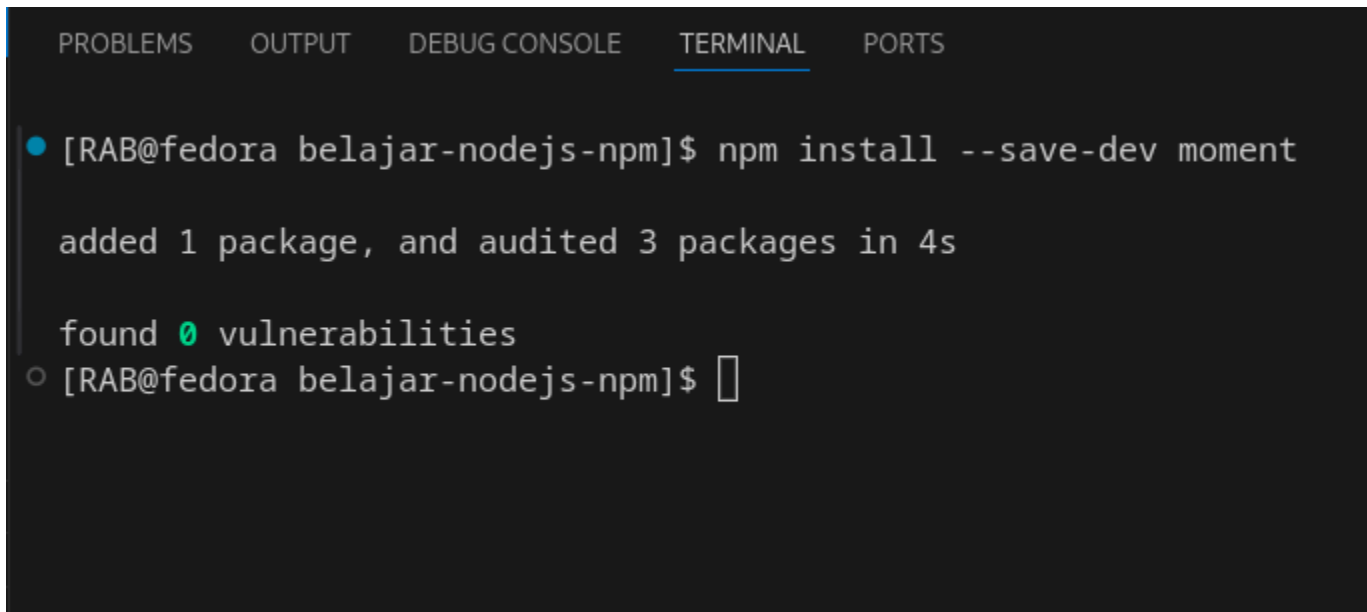

```json
    },
    "keywords": [
      "npm",
      "nodejs"
    ],
    "type": "module",
    "author": "Rohmat Arief Budiarto [RAB]",
    "license": "ISC",
    "devDependencies": {
      "moment": "^2.30.1"
    }
}
```
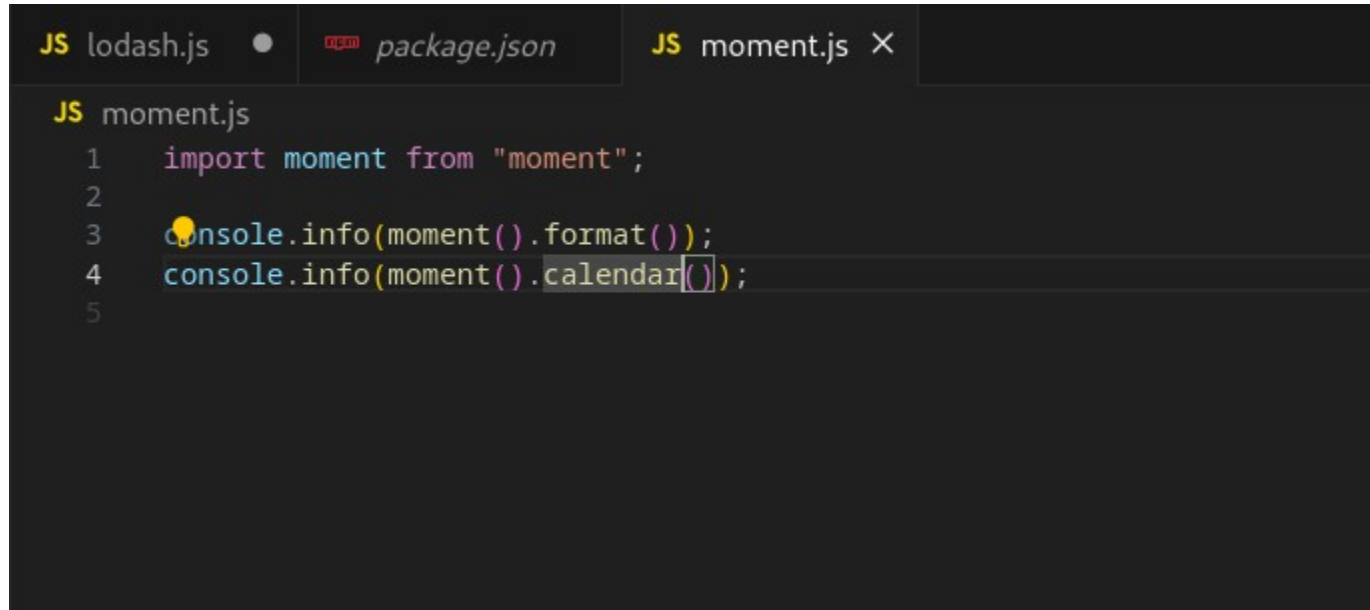
Install Dependency dengan terminal

Kode : Menggunakan Dev Dependency

```js
import moment from "moment";

console.info(moment().format());
console.info(moment().calendar());
```