

nodejs

npm init

npm init -y --> instantly initialize without asking for any information

node install --> if node_modules(dependencies) are not available, install with this command.

npm init

npm install //if we accidentally delete our node modules

npm install nodemon --global

npm install nodemon --save-dev

npm install slugify

npm install slugify@1.3.5

node install slugify

use shortcut as (npm i _____), like

npm i browserify

SIGN MEANINGS

(^latest version)(~upgrading version)(>greater version) //NOT VERY IMP

npm view slugify/browserify/nodeman version

Express

cd .\Express\

ls

npm init < entry point: app.js(its in general trending)

About VERSIONS

major.minor.patch

1.3.2

npm init

npm install //if we accidentally delete our node modules

npm install nodemon --global

npm install nodemon --save-dev

npm install slugify

npm install slugify@1.3.5

node install slugify

use shortcut as (npm i _____), like

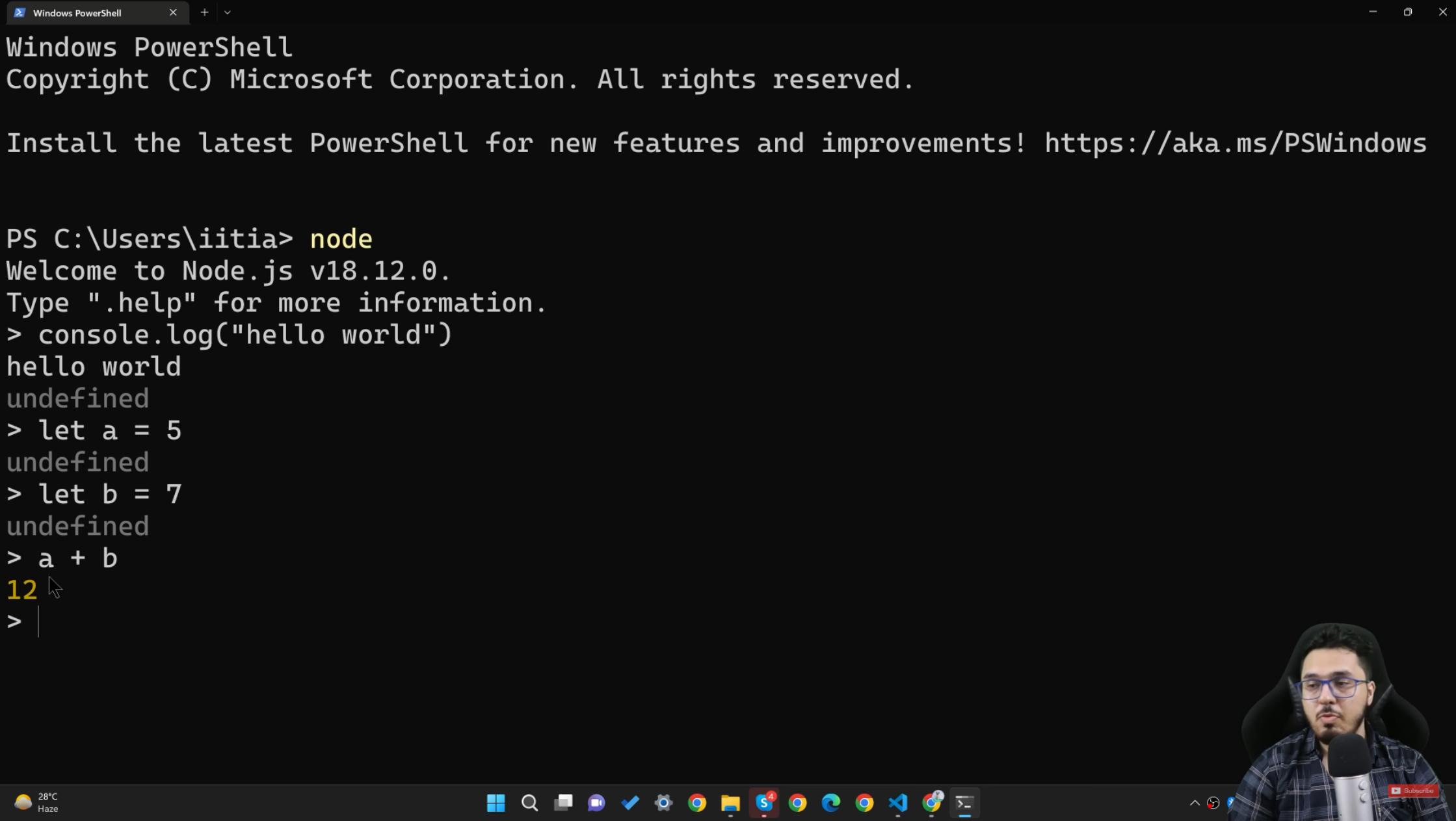
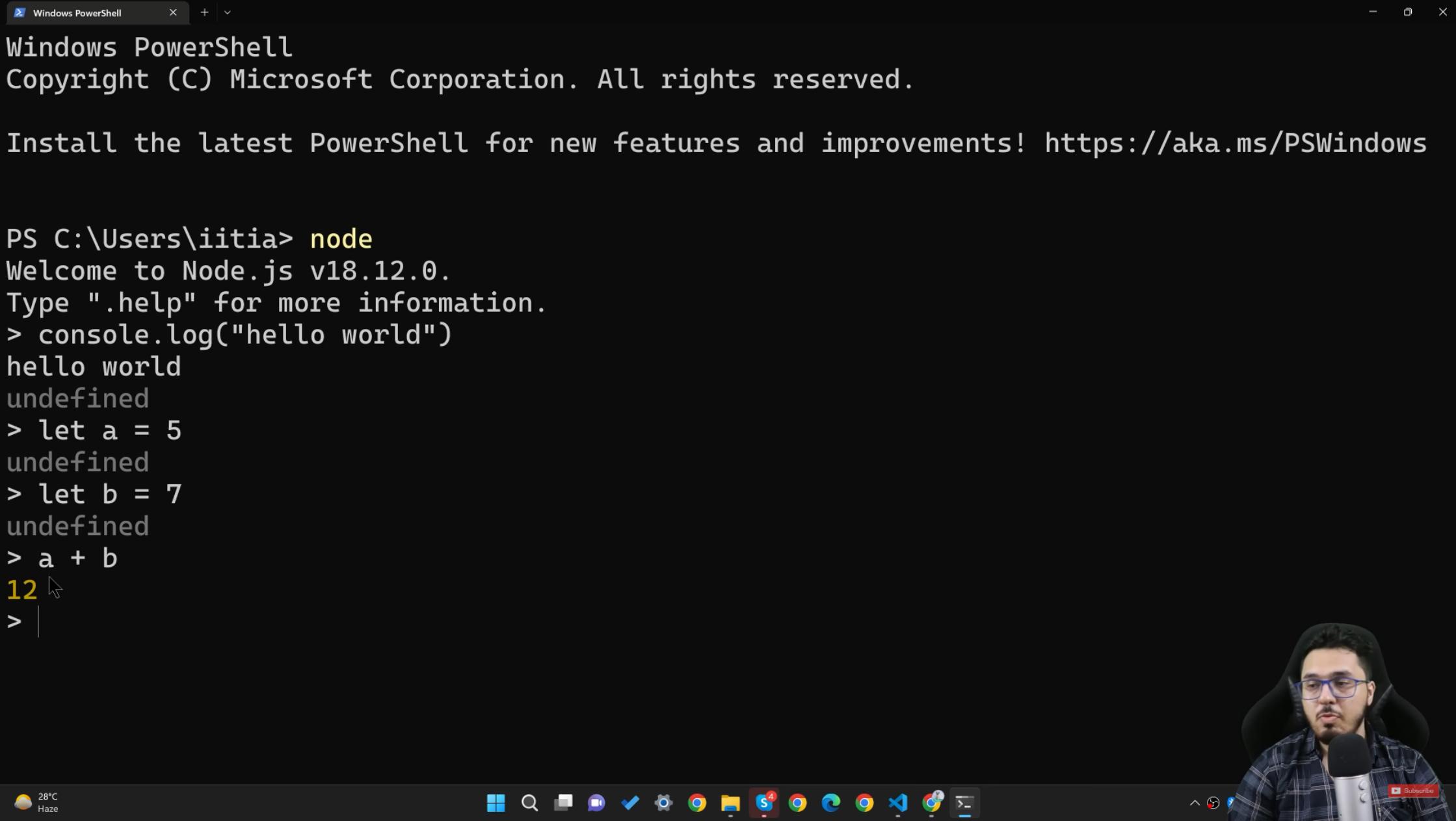
npm i browserify

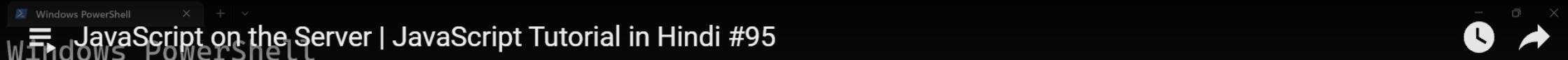
SIGN MEANINGS

(^latest version) (~upgrading version) (>greater version)

//NOT VERY IMP

npm view slugify/browserify/nodeman version





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```
PS C:\Users\iitia> node
Welcome to Node.js v18.12.0.
Type ".help" for more information.
> console.log("hello world")
hello world
undefined
> let a = 5
undefined
> let b = 7
undefined
> a + b
12
> |
```





EXPLORER

...

0; 96_modules.js X

▷ ⌂ ...



NODE

0; 96_modules.js



PROBLEMS OUTPUT DEBUG CONSOLE

TERMINAL

JUPYTER

node + ×

Hey I am good

PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> npm init

This utility will walk you through creating a package.json file.

It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (node)

Ln 1, Col 29 Spaces: 4 UTF-8 CRLF {} ↵

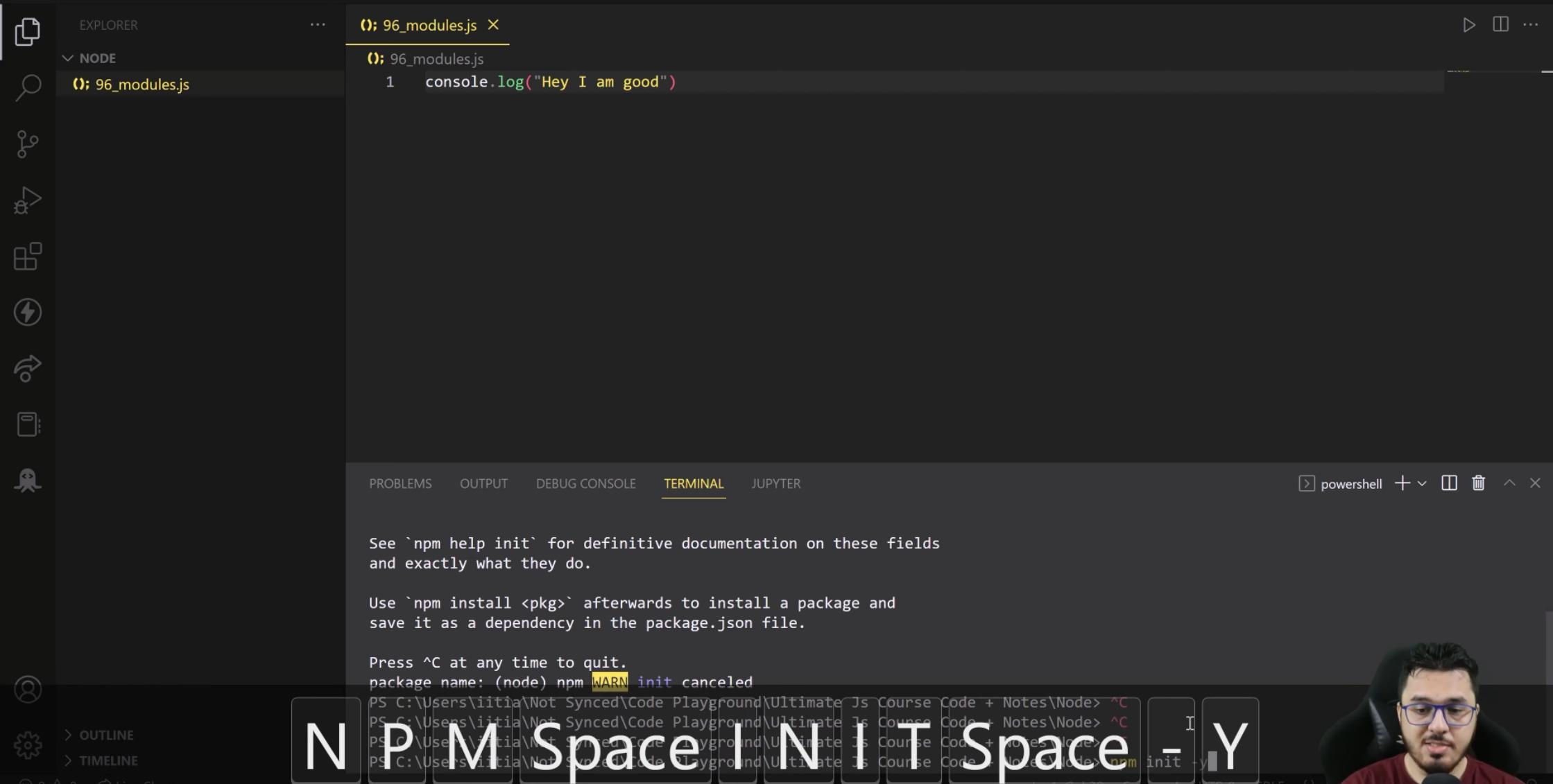


0 △ 0 Live Share



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EXPLORER

...

0: 96_modules.js X

> □ ...



NODE

0: 96_modules.js



0: 96_modules.js

1 console.log("Hey I am good")

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

powershell + ▾

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.

package name: (node) npm **WARN** init canceled

PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> ^C

PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> ^C

PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> ^C

PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> **npm init -y**

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(0); 96_modules.js



✓ NODE



> OUTLINE

0: 96_modules.js X ① package.json

```
(o) 96_modules.js
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

"main": "96_modules.js",
"scripts": {
    "test": "echo \"Error: no test specified\" && exit 1
},
"keywords": [],
"author": "",
"license": "ISC"
}
```

```
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> node .\96_modules.js  
Hey I am good  
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> npm i pdf-node
```





EXPLORER

...

96_modules.js package.json X

D D ...



NODE

96_modules.js
package-lock.json
package.json

```
1  {
2   "name": "node",
3   "version": "1.0.0",
4   "description": "",
5   "main": "96_modules.js",
6   ▶ Debug
7   "scripts": {
8     "test": "echo \\\"Error: no test specified\\\" && exit 1"
9   },
10  "keywords": [],
11  "author": "",
12  "license": "ISC",
13  "dependencies": {
14    ... "pdf-node": "^1.0.0"
15  }
16 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

powershell + □ ■ □ □ □

```
npm WARN deprecated phantomjs-prebuilt@2.1.16: this package is now deprecated
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
npm WARN deprecated html-pdf@3.0.1: Please migrate your projects to a newer library like puppeteer
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
```

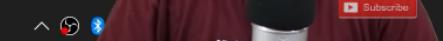
```
added 104 packages, and audited 105 packages in 20s
```

```
4 packages are looking for funding
  run `npm fund` for details
```

```
found 0 vulnerabilities
```

```
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> npm install
```

Ln 14, Col 4 (46 selected) Spaces: 2 UTF-8 LF

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ITS



EXPLORER

...

① 96_modules.js ② package.json X

> □ ...

NODE

- ▶ node_modules
- ① 96_modules.js
- ② package-lock.json
- ② package.json

```
1  {
2   "name": "node",
3   "version": "1.0.0",
4   "description": "",
5   "main": "96_modules.js",
6   ▶ Debug
7   "scripts": {
8     "test": "echo \\\"Error: no test specified\\\" && exit 1"
9   },
10  "keywords": [],
11  "author": "",
12  "license": "ISC",
13  "dependencies": {
14    "pdf-node": "^1.0.0"
15  }
16 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

powershell + □ ■ ^ ×

```
npm WARN deprecated phantomjs-prebuilt@2.1.16: this package is now deprecated
npm WARN deprecated html-pdf@3.0.1: Please migrate your projects to a newer library like puppeteer
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
```

```
added 104 packages, and audited 105 packages in 1s
```

```
4 packages are looking for funding
  run `npm fund` for details
```

```
found 0 vulnerabilities
```

```
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> yarn add █
```

Ln 11, Col 20 Spaces: 2 UTF-8 LF



> OUTLINE

> TIMELINE

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ITS



A screenshot of a code editor interface, likely Visual Studio Code, showing a file named "97_modules.js". The code in the editor is as follows:

```
// const {hello, ahello} = require("./module1") // commonjs
hello()
ahello("Shivani")
ahello("Garima")
ahello("Nitika")
ahello("Aishwarya")
```

The terminal below shows the output of running the script with node:

```
Hello Aishwarya
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> node "c:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node\97_modules.js"
Hello Harry
Hello Shivani
Hello Garima
Hello Nitika
Hello Aishwarya
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node>
```



EXPLORER

... 97_modules.js module2.js X 96_template.html package.json

NODE

- node_modules
- 96_packagesnpm.js
- 96_template.html
- 97_modules.js
- module1.js
- module2.js
- output.pdf
- package-lock.json
- package.json

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Code + ×

OUTLINE

TIMELINE

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Module2.js

```
// ES6 Modules
export const hello = ()=>{
    console.log("Hello Harry")
}

export const ahello = (name)=>[
    console.log("Hello " + name)
]
```

TERMINAL

```
at ESMLoader.resolve (node:internal/modules/esm/loader:841:30)
at ESMLoader.getModuleJob (node:internal/modules/esm/loader:424:18)
at ModuleWrap.<anonymous> (node:internal/modules/esm/module_job:76:40)
at link (node:internal/modules/esm/module_job:75:36) {
  code: 'ERR_MODULE_NOT_FOUND'
}

Node.js v18.12.0
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> node "c:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node\97_modules.js"
Hello Harry
Hello Shivani
Hello Garima
Hello Nitika
Hello Aishwarya
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node>
```

Ln 6, Col 32 Spaces: 4 UTF-8 CRLF { } ↻



EXPLORER

...

0: 97_modules.js X 0: module2.js 0: 96_template.html 0: package.json

> □ ...

NODE

- node_modules
- 0: 96_packagesnpm.js
- 0: 96_template.html
- 0: 97_modules.js
- 0: module1.js
- 0: module2.js
- ≡ output.pdf
- 0: package-lock.json
- 0: package.json



> OUTLINE

> TIMELINE

0 0 Live Share

```
0: 97_modules.js
1 // const {hello, ahello} = require("./module1") // commonjs
2 import {hello, ahello} from "./module2.js";
3 hello()
4 ahello("Shivani")
5 ahello("Garima")
6 ahello("Nitika")
7 ahello("Aishwarya")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Code + ▾

```
at ESMLoader.resolve (node:internal/modules/esm/loader:841:30)
at ESMLoader.getModuleJob (node:internal/modules/esm/loader:424:18)
at ModuleWrap.<anonymous> (node:internal/modules/esm/module_job:76:40)
at link (node:internal/modules/esm/module_job:75:36) {
  code: 'ERR_MODULE_NOT_FOUND'
}
```

```
Node.js v18.12.0
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node> node "c:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node\97_modules.js"
```

```
Hello Harry
Hello Shivani
Hello Garima
Hello Nitika
Hello Aishwarya
```

```
PS C:\Users\iitia\Not Synced\Code Playground\Ultimate Js Course Code + Notes\Node>
```





first.json

JSON IN ONE VIDEO

```
1 {  
2     "name": "Harry",  
3     "score": 11.75,  
4     "isAdmin": false,  
5     "license": null,  
6     "shopItem": ["food", "clothes", "sunflower oil"],  
7     "myObj": {  
8         "name": "nested",  
9         "marks": 45  
10    }  
11 }
```

Ln 9, Col 20

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