

Lecture -2 of JS

Strings :-

let a = 10

1st method → let s1 = "string1" + a string110

2nd method → let s2 = `string2` + a string210

3rd method → let s3 = `'string3' + {a}` string310

→ methods:

let charAt4 = str.charAt(4); console.log("charAt 4", charAt4);

let slicedStr = str.slice(4, 10); console.log("sliced", slicedStr);

* String → array of string

let arrayStr = str.split(" ");

toLowerCase, toUpperCase

* Remove whitespace from front & back

let trimmed = str.trim();

* Array → to string ***

let str = arrayStr.join("+"); need to mention on the basis of what

* to convert into number Number()

→ Arrays :-

let arr = [1, 2, 3, 4, 5]

for (let i = 0; i < arr.length; i++)

console.log(i, " : ", arr[i])

* push/pop → add/remove Last

* unshift/shift → add/remove First

* slice → gives a copy of a subarray

* splice → deletes any no. of elements

* indexOf, contains

a = [1, 2, 3, 4, 5]

a.push(10) → 1, 2, 3, 4, 5, 10

a.pop() → 1, 2, 3, 4, 5

a.unshift(16) → 16, 1, 2, 3, 4, 5

a.shift() → 1, 2, 3, 4, 5

a.slice(1, 4) → (2, 3, 4)
↳ doesn't change the original array

a.splice(1, 3) → (2, 3, 4)

↳ delete elements

Changes the original array

index of :-

idx = arr.indexOf(11);

~~contains~~ → includes

string to array - JSON.parse(input)

↳ string looking like array

→ [array, function, object]

function fn()

```
{ console.log("I am a function");  
  return "hello"
```

```
}
```

let tempArr = [1, 2, 3, 15, 5]

let tempArr = tempArr

let arr = [

1, true, 1.1, "string", null, tempArr, fn]


```
console.log("2d Array", arr[arr.length-2]);  
console.log("access the last element", arr[arr.length-1]);  
console.log("call the last element", arr[arr.length-1]());
```

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NODE.js

List of all the commands:

node main.js tree "direct path"
node main.js organize "directory path"
node main.js help

(1) node main.js help → console list.

(2) node main.js tree "path" / (—)
├── path
│ └── path/tree
└── current folder

(3) node main.js organize
├── path → organize that path.
└── path
 └── current paths

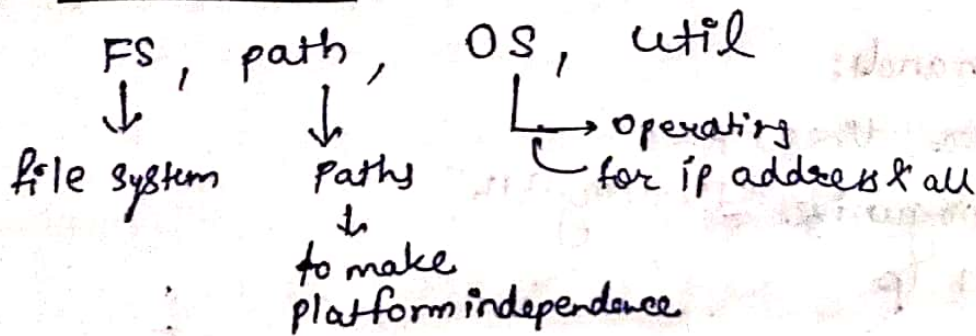
fs : has many functions, which has all documentation

// implementation → files / folder interact

let fs = require("fs"); → to use fs module

let content = fs.readFileSync("f1.txt"); → to read file
console.log("content : " + content);

core modules:



documentation regarding files :-

let fs = require("fs"); → for fs module

// for reading

fs.readFileSync("f1.txt");

// for writing

fs.writeFileSync("abc.txt", "exyx is OP");

// for appending

fs.appendFileSync("abc.txt", "exyx is too gud");

// for deleting

fs.unlinkSync("abc.txt");

documentation regarding directory :-

```
// create
fs.mkdirSync("mydirectory");
// delete → fs.rmdirSync("mydirectory")
// path → check does it exist or not
// let doesExist = fs.existsSync("dir1" "fs1.js")
// console.log("this path exist?", doesExist);
// path → belongs to a directory or file
// let statsOfPath = fs.lstatSync("dir1");
// console.log("is file?", statsOfPath.isFile());
// console.log("is directory?", statsOfPath.isDirectory());
// directory → content.
// let address → abhi\main.js
let content = fs.readdirSync(address);
console.log("directory content", content);
```

documentation regarding paths :-

Note

to take input overall :-

for removing node fs.js

```
let arr = process.argv.slice(2)
```

① current path:

```
let currentpath = process.cwd();
```

```
console.log(arr);
```

```
let filename = arr[0];
```

```
let content = arr[1];
```

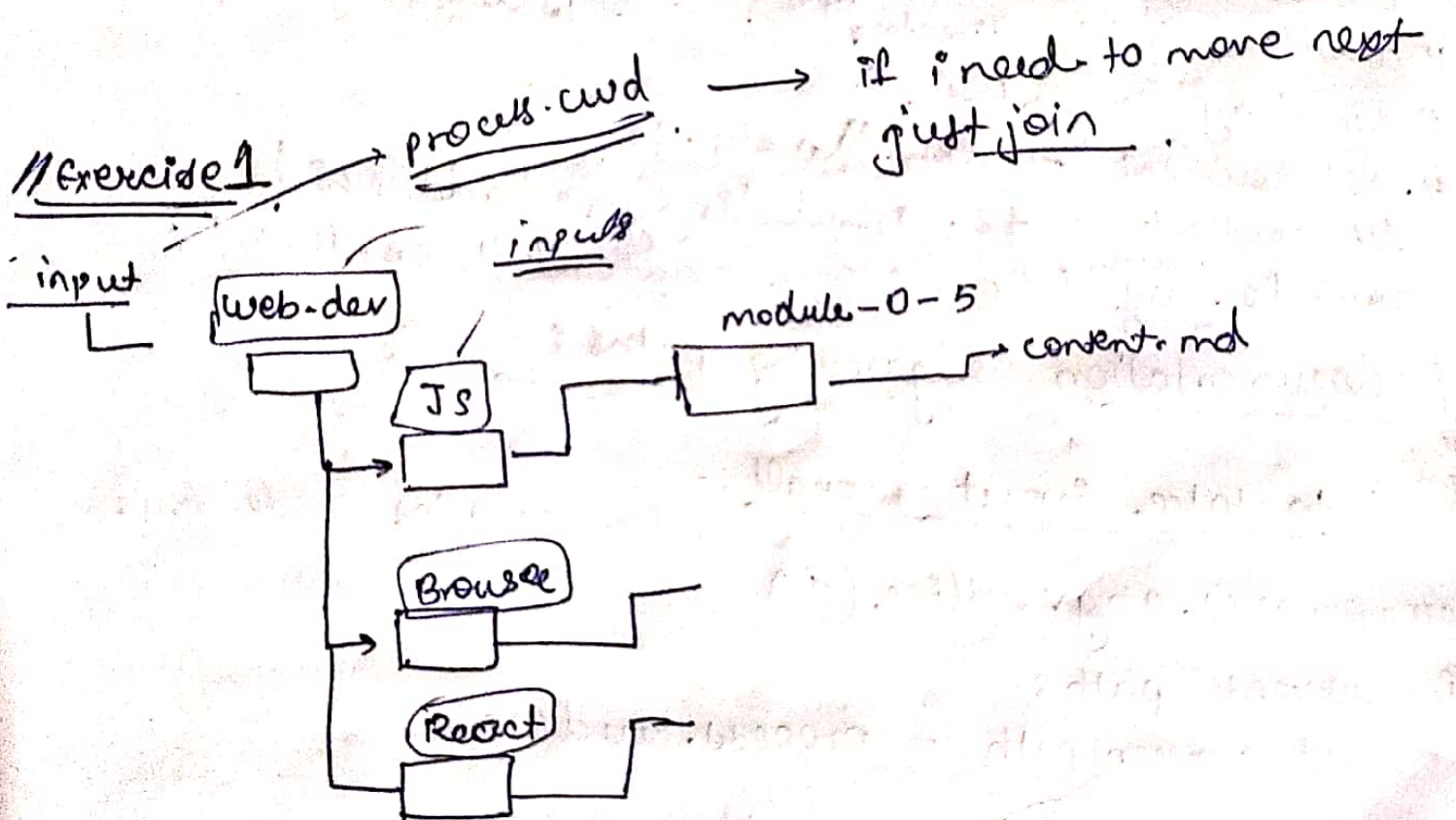
```
console.log("file name :", filename)
```

```
console.log("content", content)
```

```
// current path of directory
```

```
let currentpath = process.cwd();
```

```
// console.log ("currentpath", currentpath);
// path → paths → platform independent
// let joinedPath = path.join(currentpath, "abc", "def", "efg");
console.log ("joinedPath", joinedPath);
let filePath = path.join(currentpath, "dir 1", fileName);
console.log ("filePath", filePath);
fs.writeFileSync (filePath, content);
```



>> node input.js web_dev JS Browser React

```
let fs = require("fs");
let path = require("path");
let inputArr = process.argv.slice(2);
let mainDir = inputArr[0];
```



```

let cwd = process.cwd()
let mainDirPath = path.join(cwd, mainDir)
let isMainModulePresent = fs.existsSync

```

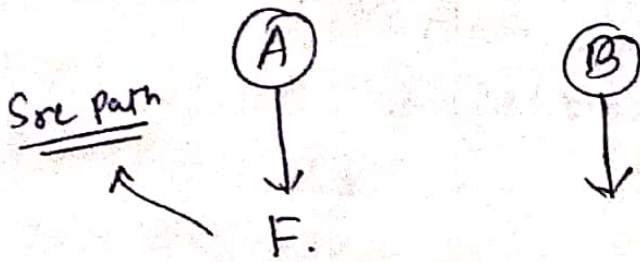
* k8+1

```

let fs = require("fs")
let inputDir = process.argv[2][0]
let allEntities = fs.readdirSync(inputDir)
for (let i = 0; i < allEntities.length; i++) {
  let entityName = allEntities[i];
  let fullPath = path.join(inputDir, entityName);
  let statsOfPath = fs.lstatSync(fullPath);
  if (statsOfPath.isFile()) {
    content += fs.readFileSync(fullPath);
  }
  let filePath = path.join(inputDir, "summary.txt");
  fs.writeFileSync(filePath, content);
  console.log("summary path created");
  let ext = path.extname

```

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```
let srcPath = ""
let destDir = ""
let toBeCopiedFileName = path.basename(destDir srcFilePath)
console.log(toBeCopiedFileName)
let destPath = path.join(destDir, toBeCopiedFileName)
fs.copyFileSync(srcFilePath, destPath)
console.log("file copied");
```

for code export we need to use in object form.
lib.js

```
let a = 10;
```

```
function fn()
```

```
{ console.log("Hello I am Fn"); }
```

```
function notToBeExported()
```

```
{ console.log("I don't want to be exported"); }
```

```
// code exports
```

```
module.exports =
```

```
{  varName : a,
```

```
  fn : fn
```


Client.js

```
let libexport = require("./lib");  
console.log(libex "I am client file")  
console.log(libexport.version)  
console.log(libexport.fn());
```

Task:1.

Activity ↗ main ke thuru input
└─ main.js

Input → node main.js tree "path"
" " " organize "path"
" " " help "path"

```
let helpObj = require("./command/help");
```

code: check vs code . Lecture 4.

github:-

first time setup

```
git config --global user.email "abhi.0.com"
```

```
git config --global user.name " "
```

```
// to verify git config --list
```

Always git init ⇒ create gitignore ⇒ add node-modules to it

② git add . ⇒ ③ git commit -m "commit msg"

④ create a repo on github

⑤ git remote add origin Your repo name

⑥ git push -u origin master