

- ① VS code
- ② Node JS


JS

Code

↳ github


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↓ Windows  
Windows 10, 11


User Installer	x64	x86	Arm64
System Installer	x64	x86	Arm64
.zip	x64	x86	Arm64
CLI	x64	x86	Arm64



↓ .deb  
Debian, Ubuntu

↓ .rpm  
Red Hat, Fedora, SUSE

.deb	x64	Arm32	Arm64
.rpm	x64	Arm32	Arm64
.tar.gz	x64	Arm32	Arm64
Snap	Snap Store		
CLI	x64	Arm32	Arm64



↓ Mac  
macOS 10.11+

.zip Intel chip Apple silicon Universal

CLI Intel chip Apple silicon

JS  
↳ Programming Language

WEB      APP

Frontend + Backend

Angular

React

↳ NextJS

React Native (Mobile) ✓

IOS      Android

APP  
Android / IOS

Node JS + Express JS

Web → console

Node JS

Print

c → printf(" ");  
Java → S.o.plm();

JavaScript → console.log("Hello");

Run

node filename.js

node A.js

Day1 > JS Print.js

```
1 console.log("Hello World");  
2 console.log("Java\nscript");  
3 console.log("Hello\tJs")
```

*\n → new line*  
*\t → Tab*

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL COMMENTS powershell

Hello World

Java

script

PS D:\Unmeshanam\JavascriptBatch-Monday-Wed\Day1> node Print.js

Hello World

Java

script

Hello Js

PS D:\Unmeshanam\JavascriptBatch-Monday-Wed\Day1>

# Data Type & variable → Container

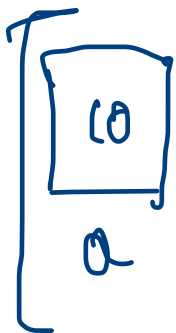
type of data

2.3 → float  
33 → integer  
44 → integer  
'A' → char  
"JavaScript" → String

} → number



variable



a = 10;

## Variables declaration

→ var ✓  
→ let ✓  
→ const ✓

var k = 10;  
let k = 20;  
const k = 20;

```
// NaN  
var g = 0/0;  
console.log(g);  
console.log(typeof(g));  
  
var l = "Java" * 20;  
console.log(l);  
console.log(typeof(l));
```

NaN

NaN

Java c

int a = 5;  
float c = 5.5;

0/0 ?X  
NaN

"Java" + 20

Java 20

var k;

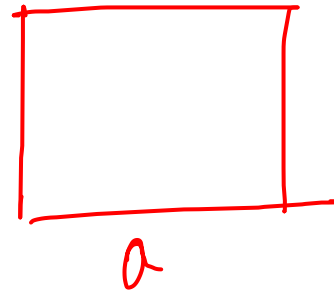
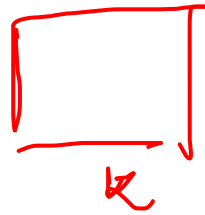
console.log(k);

Undefined

```

JS Print.js U JS variable.js U
Day1 > JS letconvar.js > ...
1 var a = 20;
2 var a = 10;
3 console.log(a);
4 var a = 12;
5 console.log(a);

```



~~var k = 10;~~  
 k = 15; ✓

n number of time declaration  
 n ~ ~ ~ value change

```

console.log(".....");
let b = 10;
console.log(b);
let b = 20;

```

1 time declaration  
 n number of time value change

```

console.log(
let b = 10;
console.log(b);
// let b = 20;
b = 5;
console.log(b);

```

```

const k = 10;
// const k = 30;
k = 36;
console.log(k);

```

1 time declaration  
 1 time value set

var vs let vs const

33, 3.5

- ☐ number
- ☐ string
- ☐ undefined
- ☐ boolean
- ☐ null
- ☐ NaN
- ☐ Typeof operator

(A) "BCDEF")

let a;

0 → print

print k

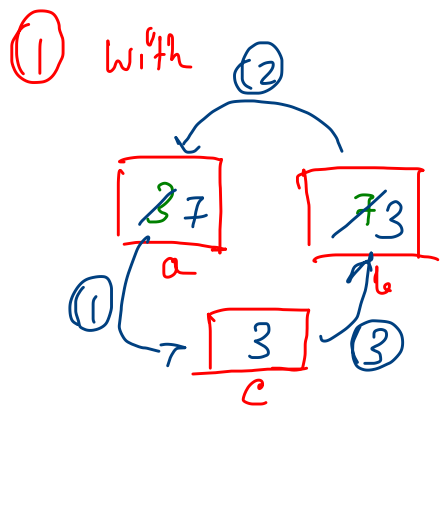
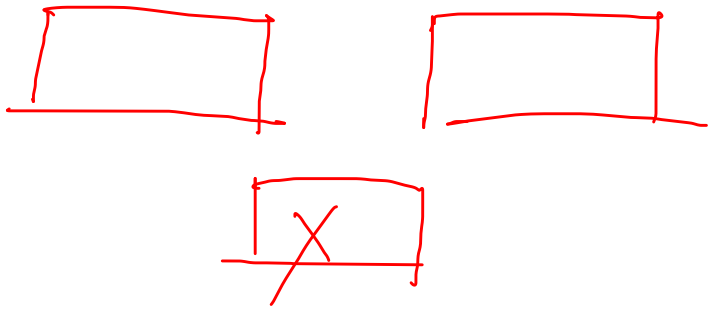
true / false

0/0

int k=0;

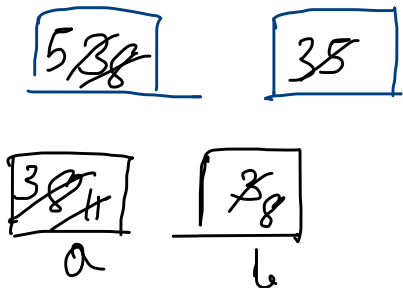


→ Swap two numbers using 3rd variable  
/ without using 3rd variable



$$\begin{cases} c = a; \\ a = b; \\ b = c; \end{cases}$$

② Without



$$\begin{cases} a = 8; \\ b = 3; \\ a = a + b \\ b = a - b; \\ a = a - b; \end{cases}$$