① VS Code
② Node JS

JS

Code
  └→ github

JS
└→ Programming Language

WEB   APP

                                              APP

                                    Android / IOS

Frontend   +   Backend
_____   _____
Angular   Node JS + Express JS
React
  └→ Next JS
React Native (Mobile) ✓
      IOS Android

Web → console
_____

Node JS
_____

Print
_____

$C \rightarrow$ printf(" ");

Java $\rightarrow$ S.o.pln():

JavaScript $\rightarrow$ console.log(" Hello"):

Run

node filename.js

node A.js

```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   ⌄ powers

```
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>
```
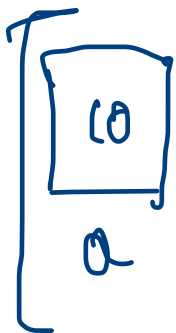
Data Type & variable $\longrightarrow$ Container

type of data

$$2.3 \longrightarrow float$$
$$33 \longrightarrow integer$$
$$44 \longrightarrow integer$$
$$'A' \longrightarrow char$$
$$\text{"Java Script"} \longrightarrow String$$

$\Bigg\} \longrightarrow$ number

variable

$$a = 10;$$

10

a

Variables declaration

- → var ✓
- → let –
- → const ✓

Java c

int a = 5;
float c = 5.5;

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

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

$0/0 \ ? \ X$

NaN

"Java" + 20

Java 20

var k;
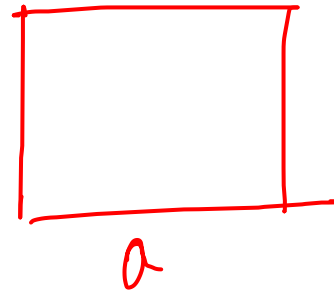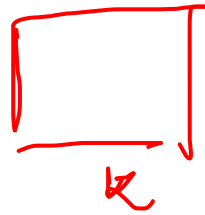console.log(k);
        └ Undefined

```js
Day1 > Js letconvar.js > ...
1    var a = 20;
2    var a = 10;
3    console.log(a);
4    var a = 12;
5    console.log(a);
```

k

a

```
var k=10;
k = 15;
```

n number of time declaration

n ～ ～ ～ value change

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

1 time declaration

n number of time value change

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

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

1 time declaration

1 time value set

Var vs let vs const

☐ number
☐ string
☐ undefined
☐ boolean
☐ null
☐ NaN
☐ Typeof operator
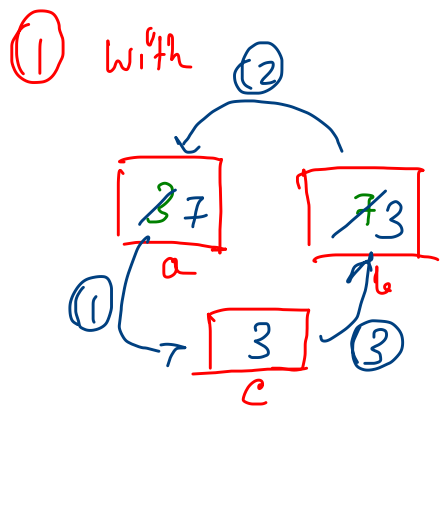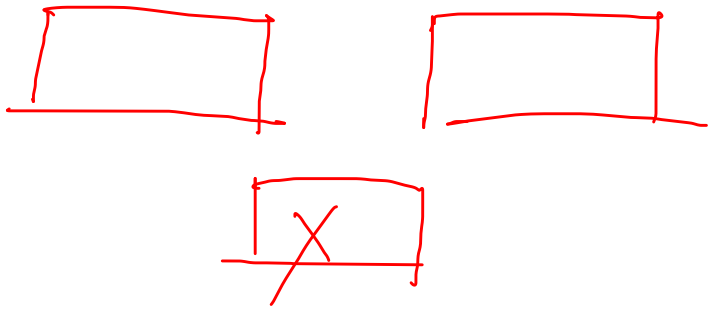
33 , 3.5

(A) "BCDEF"
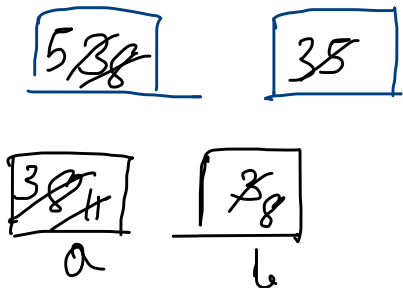
let a;

ⓐ → Print

print k

true / false

0/0

int k=0;

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

① With ②

$$c = a;$$
$$a = b;$$
$$b = c;$$

② Without

$$a = 8;$$
$$b = 3;$$
$$a = a + b$$
$$b = a - b;$$
$$a = a - b;$$