React :- JS library to used for the creation front end application

Requirement → JS (JAVA Script)

React

JS :- History :- Netscape → lang → web appl^n

JS + ES6

JS Fundamental concept

→ programming language → high level lang.

→ Compiled & Interpreted language

Source → $ → System → o/p

Static web Page $\xrightarrow{JS}$ open source Netscape developed

machine 1001 → System

ECMA → purchase Netscape → rights

↓
JS

ES 6 → features

web appl^n — JS

ES 8
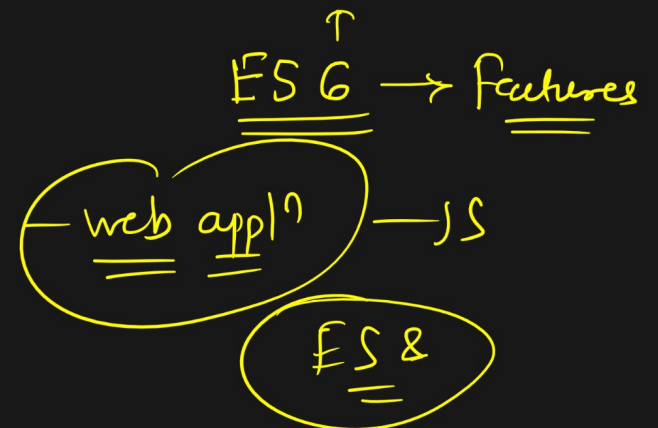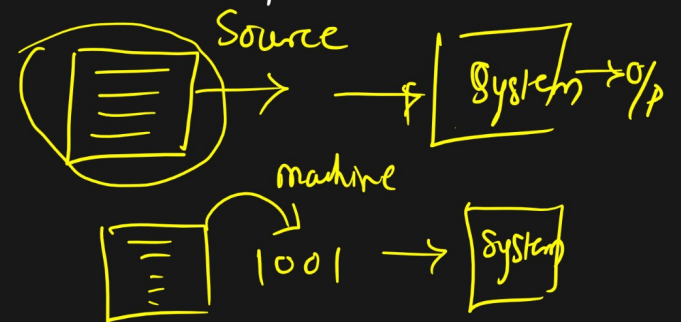
High level programming

JS — Scripted language

— Compiled & Interpreted language

— Synchronous Programming

→ Asynchronous Prog. → JS ES6
  ↳ await () promises
       setTimeout()

Void f1 Task1
{
}   .5sec

Void f2 Task2
5sec {
}   10sec

JS

✓ History
✓ What is JS?
✓ How to write down JS code?
✓ How to run JS code?

} Requirements

1) IDE → VS code
2) Node JS - Library
3) Extenstions - VS Code
   A) code Runner
   → B) JS ES6 Snippest
   → C) pretier
        (code furmatting)
   D) Code spell checker
   → E) ES lite
   F) Live Server
   G) Live Preview

* Comment ⇒ // → ctrl + /

/*
   → shift + Alt + A
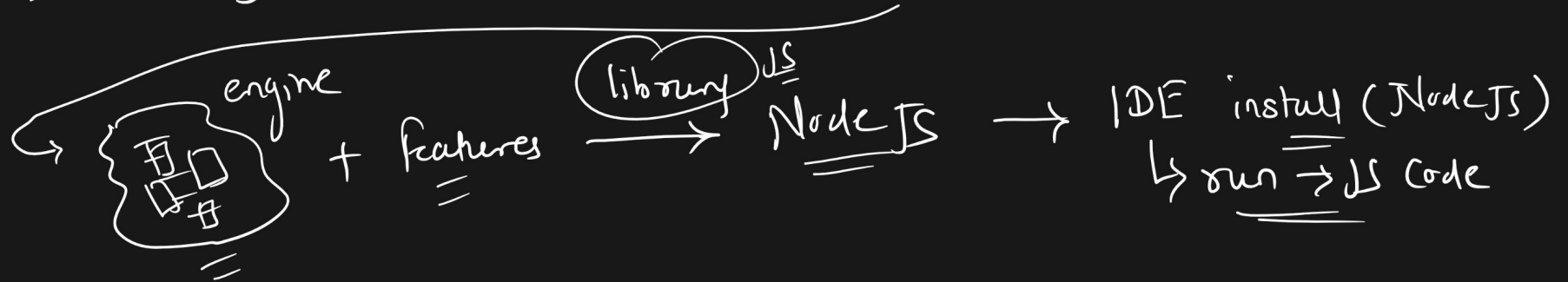
*/

error
—unused
→ undeclr
→ uninitialize
} →

NodeJS → JS Library

engine → google chrome

JS → Program →run→ browser → JS Engine (V8△) → run JS program

→ engine + features → (library) JS NodeJS → IDE install (NodeJS)
↳ run → JS code

Variable Decl^r

JS

1) let
2) const
3) var

```
var a = 10;

console.log (a)

o/p = 10
```

Scope of → a → global scope

```
if (true)
{
    var a = 10;
}

console.log (a)
```

Scope → a → { ___ }

block scope

```
for (i
{
    ↓
}
```
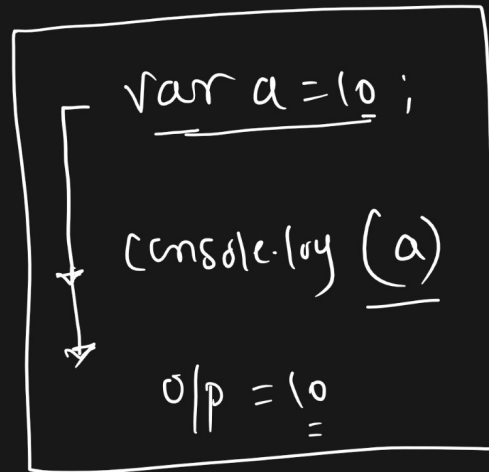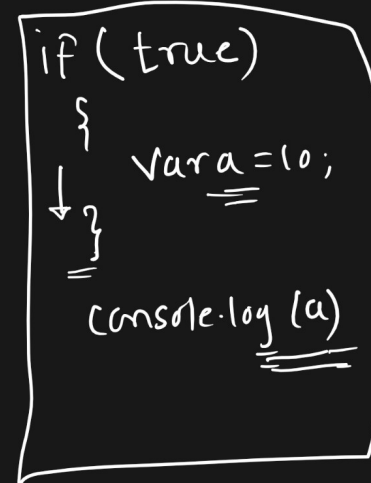
① (VAR) → var has a global scope & funⁿ scope
       X   - we reinitialize in same scope as well as different scope
              - we redeclr with same name in same scope & different
                                                                    scope

② ✓ let → let has only block scope

③ Const → const has also block scope