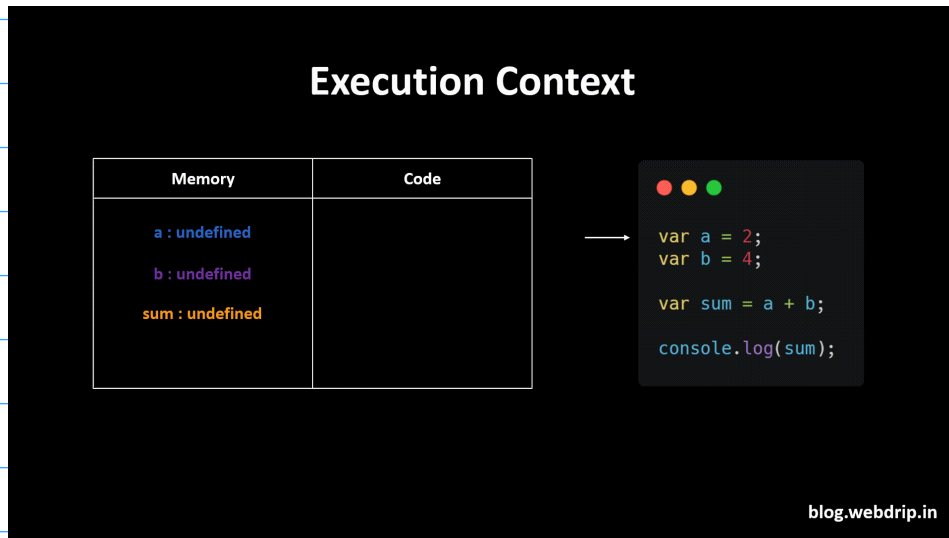


how JS - work (BTS)

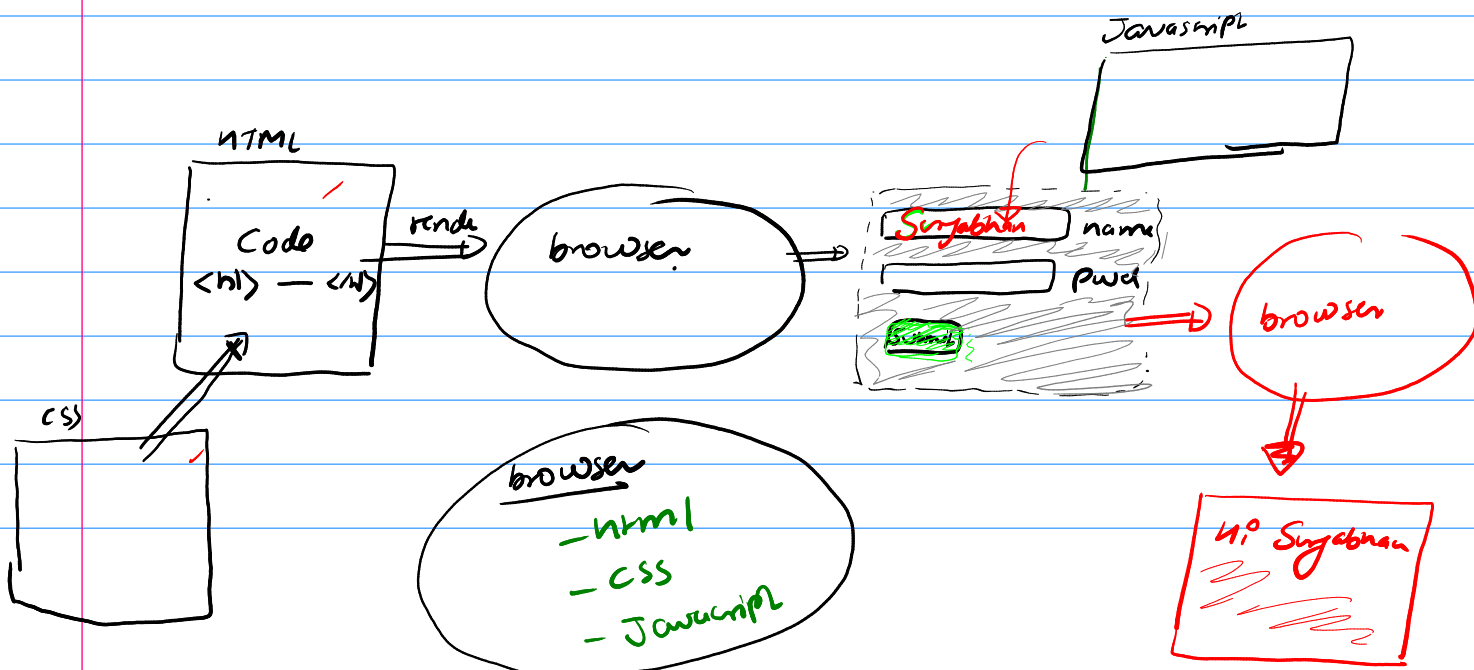


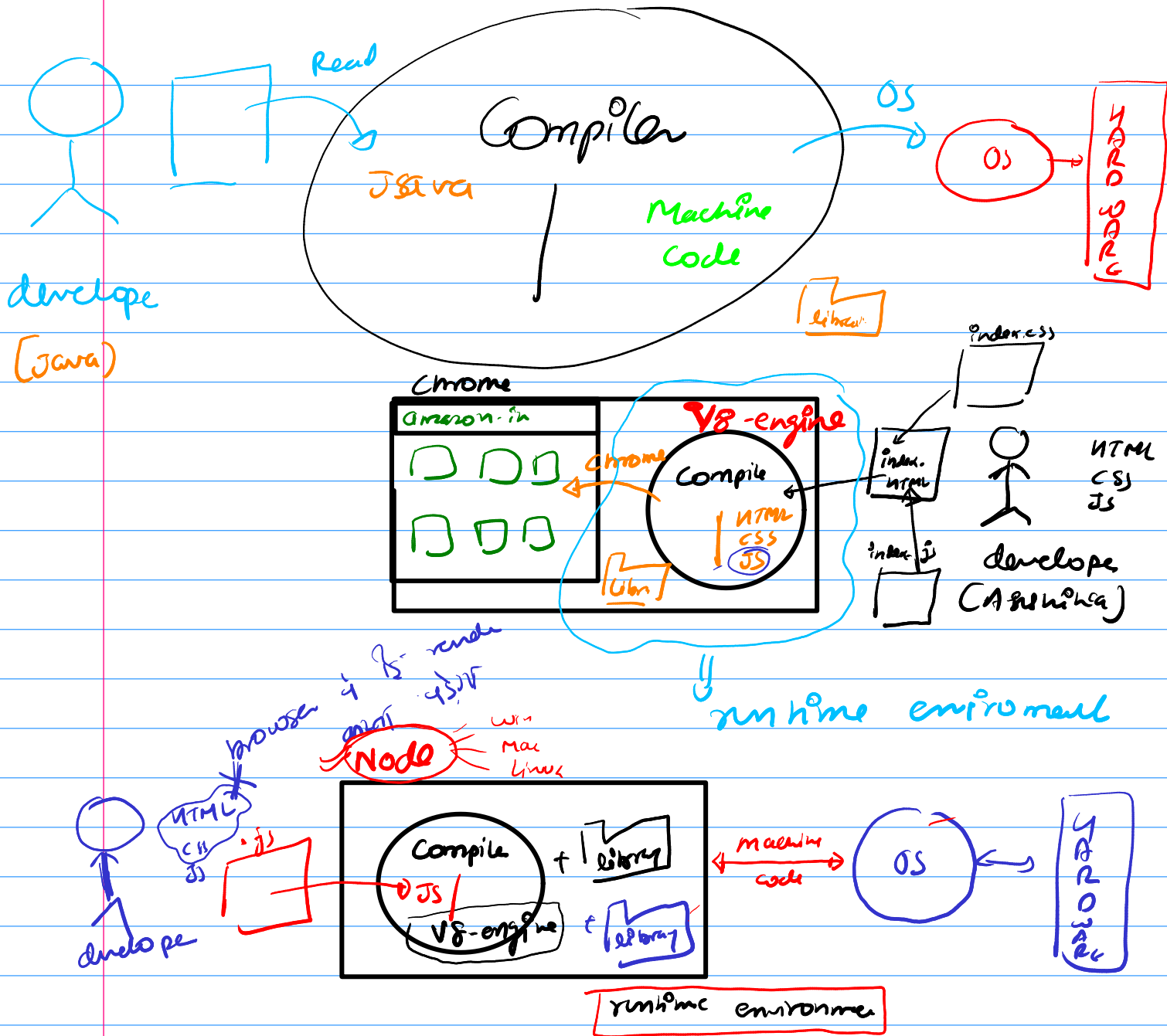
index.js

```
console.log(a);
```

→ **a is not defined**

> node *index.js*






Goal:

- ① Compiler
- ② browser & run code
- ③ Node → runtime env. for JS

Goals [JS - code -> execute]

JS	Java	C++
<div>①</div> <div><code>console.log(a) // error</code></div> <div><code>console.log(a);</code> ^</div> <div>ReferenceError: a is not defined</div>	<div><code>System.out.print(a);</code></div> <div>Error: cannot find symbol symbol: variable a System.out.print(a);</div>	<div><code>cout << a;</code></div>

JS	Java	C++
<div>②</div> <div><code>console.log(a);</code> <i>err</i> <code>var a = 10;</code> <code>console.log(a);</code> <i>10</i></div> <div><i>allocate memory to function, var</i> <i>memory alloc</i> <i>code exec</i> </div> <div>undefined</div> <div>JS compile vs (node)</div> <div><i>Console</i> <i>error: ax</i> <i>undefined</i> <i>10</i></div>	<div><code>System.out.print(a);</code> <code>int a = 10;</code></div> <div>Error: cannot find symbol symbol: variable x system.out.print(x); ^ Error: package system does not exist system.out.print(x);</div> <div><i>code-execution</i> <i>Compiler</i> <i>Java</i></div>	<div><code>cout << a;</code> <code>int a = 10;</code></div> <div><i>→ compile time</i> <i>→ a is 10</i></div>

undefined
10



[Assignment]

① Akshay Saini → Name JS videos
 ↳ How JS works (BTS)
 [40-45]

② (4L) how JS works

③ next week [4L]

practice + concept
 4L [4]

④ Name JS [23 videos] → (M, T, W, T, F) Saturday
 29/11/21 on day