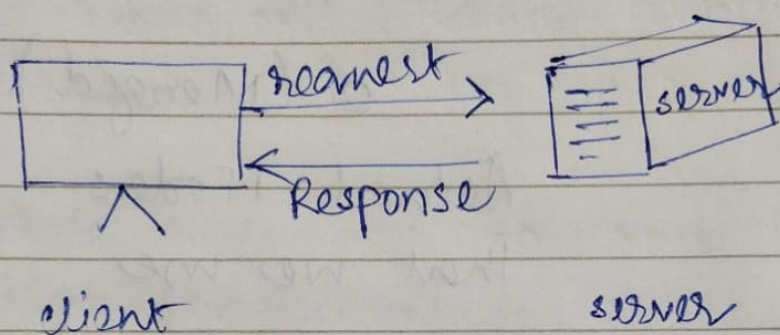# NodeJS — JS on Server (1)

Server

Machines which receives a request & responds to it.
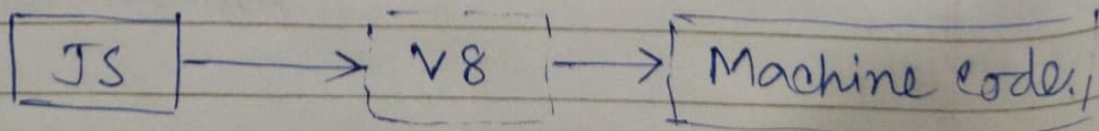

client   server

What is V8 ??

JS Engine: Made in C++ (Memory)
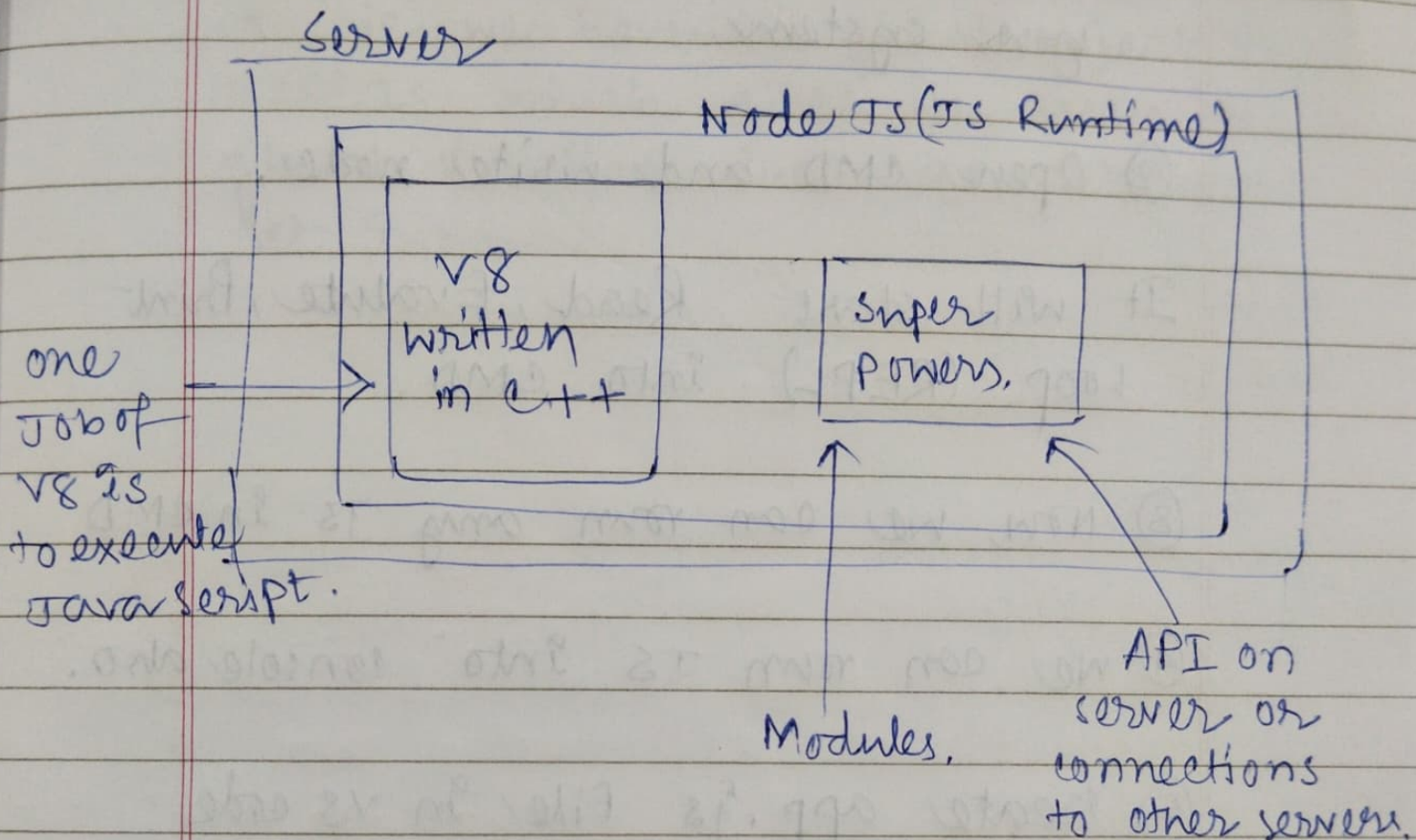JS Engine is a CPP program which executes JS.

V8 is on open-source high-performance java-script engine, written in C++. It is used in chrome and Node js.

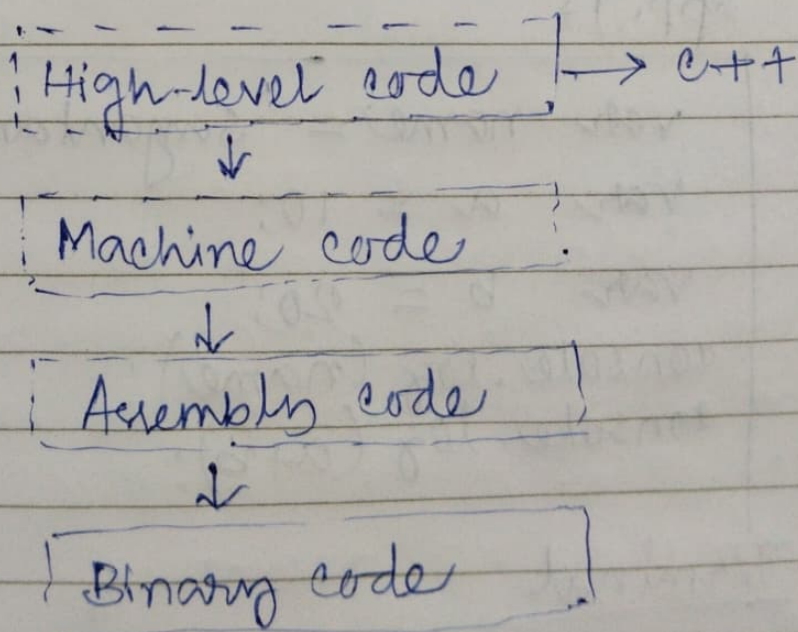V8 can be embeded into any C++ application. It follows ECMA script standerd.

$$\boxed{JS} \longrightarrow \boxed{V8} \longrightarrow \boxed{Machine \ code}$$

What is Node JS

Node JS is a C++ application with v8 embeded into it.

Server

one Job of v8 is to execute Java script.

Node JS (JS Runtime)

v8 written in C++

Super Powers.

Modules.

API on server or connections to other servers.

code conversion

High-level code ⟶ C++
↓
Machine code
↓
Assembly code
↓
Binary code

High-level code is user understandable

Binary code is Machine understandable