Session — 4   31 July 2022

~~console.log~~ console.log ("Hello World");

⟹ node   index. JS

console.log (2+2)

⟹ node   index. JS

num = 3   num ⟹ variable
console.log (②) (num) ≡   assigned
                  3   stored a value

| 3 | → Variable
        num

⟹   num = 3
        num = 7   output — 7
        console. log (num)

Comment → //   Single line
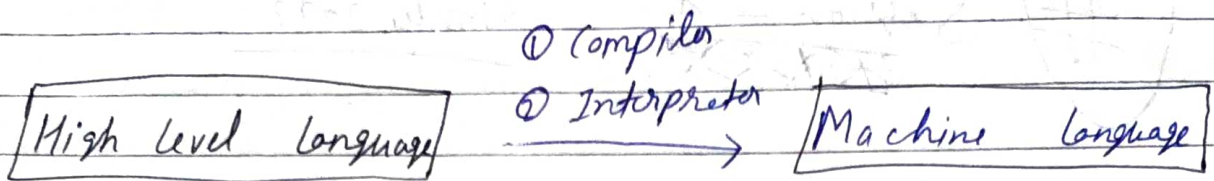   /* }   multiline   4 | Ctr+/ |
              */ }

text is called   String.

num = 7   // number
num = '' seven "   // string

⇒ let Keyword

②

| High level language | ──→ | Machine language |

① Compiler
② Interpreter

Compiler — A compiler is a computer programme that translate computer code written in one programming languag to another language. use → High level to low level.
Single run.

Interpriter — A code run line by line

Every language

- Structure → Syntax
- Variable → Data
- Decison →
- repeat → loops

Single quote   JS
donble qonte
back gonte

→ Syntax error   →   Syntax error
→ Logical error   →   code run but output wrong

★ * let declaring variable
↓ other langage → int, var.

* "use Strict" one top line

③

1) **Statically typed language**

Whenever who a create a variable
Show the type. (x - number, String, boolean

A statically-type language is (suchas C++, C, Java) where
Variable types are known as compile type.
⁶⁶ Compile time "

2) **Dynamically typed language**

Dynamally typed language are those (like Java script)
where at a run time based value,
ₑ runtime '

⇒ **type check** - it is check a data types

Let n = 6
console. log (n)
console. log (type of n)

⇒ **Conversion** - Converted to a new variable and another datatype

let value = Number ("987");
console. log (type of value);
(type of value);

let value = Number ("987 Navin");

console. log (value, type of value);

output | Nan Number

NaN — Not a Number (illegal number)

or

incorrect number

⇒ parse Int → It is find para only number
   to

let value = parse Int (" 987 number");
console. loge (value type of type of value);

```
increment
operator
```

let   num = 1

// num = num + 2 ⎫ same & short
   num + = 2   ⎭

console. log (num);

```
//    num = num +1
      num + = 1        All
      num ++          Same
```

++ num   — pre increment

⇒   num = 8

num = num ++   past → ① Assing
   ↖ ⏜   ② Increment

num / = ++num   pre → ① Increent
                                ② Assing

9,8

Condition

```
let num = 5
if (num % 2 === 0)
    console.log ("Even");
else
    console.log ("odd");
```

loops — While, do while, for

While

```
let i = 1
while (i <= 5)
{
    console.log ("Hello");
    i++;
}
```

Debugging check

Assignment

→ Calculator with all basic operato
⇒ print all even number from 1 to 100
⇒ find a given number is prime or not

⇒ function, object, oops concept, Arrays