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Session – 4 31 July 2022

console.log ("Hello World");

⇒ node index.JS

console.log (2+2) ⇒ node index.JS

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

3 → Variable
num

⇒ num = 3
num = 7
console.log (num)
output – 7

comment → // Single line
/* */ multiline
ctr+/

text is called String.

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

⇒ let Keyword

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High level language → ① Compiler ② Interpreter → Machine language

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
double quote
back quote

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

* let declaring variable
other langage → int, var.

* "use Strict" one top line

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1) Statically typed language
Whenever we a create a variable
show the type. Ex - number, string, boolean

A statically-type language is (such as C++, C, Java) where variable types are known as compile type.
"compile time"

2) Dynamically typed language
Dynamally typed language are those (like javascript) where at a run time based value.
"runtime"

⇒ type check - it is check a data types

```
let x = 6
console.log(x)
console.log(type of x)
```

⇒ Conversion - Converted to a new variable and another data type.

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

```
let value = Number("987 Navin");
console.log(value, typeof value);
```

output | Nan Number |

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NaN — Not a Number (illegal number)
or
incorrect number

⇒ parseInt → It is find para only number
to

```
let value = parseInt("987 number");
console.log(typeof value);
```

increament operator

```
let num = 1
// num = num+2 } Same & short
num += 2
console.log(num);
```

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

++num — pre increement

⇒
```
num = 8
num = num++
```
post → ① Assing
② Increment

output
9, 8

num = ++num pre → ① Increment
② Assing

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Relational operator

```
let num1 = 8
let num2 = 6
let result = num1 > num2
console.log(result);
```

'==' in programming
'=' in general

⇒ Same question of one string "8"

double '==' Compare the values not types
triple '===' Compare the "values and types" as well as

templete literale

- ${} & back sticks

This is used any print in a line
Value used →

```
let user1 = "8
user2 = 7
result1 = num1 + num2
```

console.log (① The addition ${num1} & ${num2} is the ${result} ')

backtype

}

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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 operation
⇒ print all even numbers from 1 to 100
⇒ find a given number is prime or not

⇒ function, object, oops concept, Arrays