DELTA 3.0 DATE

JavaScript -1

"Intro" Largest And third component of Frontend is JS

Javascript is used to make a website Functioning at the user end so that they interact with website

Using the console :

We can use browser's console to write JS code for temporary time

(Ctrl + L ⇒ clear the console's code)

Console works on REPL method

REPL ⇒ Read - Evaluate - Print - loop

Variables ⇒

Variables are like container to store information their information (value) can be changed

Variable = value

DATE

Data types in JS →

Number, boolean, string, undefined, null
Bigint, Symbol

{"typeof Variable" ⇒ used to get type of data in variable}

Number in JS →

(14) (-14) (12,-47) (2.48)
Positive, Negative, Integer, decimal → all are considered as number data type

{Every data type has a limit of memory to store value}

operator in JS → operands / operator

+ / - / * / / / % (modulo) [Get remainder]
** (exponentiation)

NaN in JS → "Not a number"

Nan gives you always NaN after any operation

Operator Precendence → Priority

() ⟶ ** ⟶ *, /, % ⟶ +, -

operator with same precendence Execute in order of left to right

- Except ** (Power) operator (Right to left)

Let, const & var → Key words →

Let → mostly used

const → Can't changed

Var → old syntax

Assignment operators →

age = age + 1

or age += 1 (-=, *=, /=, %=, **=)

- L = R → left Variable get the value of right side

Unary operators →

works on one operands

- age += 1
  or age ++ // age -- (Pre increment decrement)

++ age // --age (post increment/decrement)

(use, then change)

(change, then use)

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Identifier rules →

- can contain → Letters, digits, underscores, dollar
- start with → Letter, dollar, underscore
- Case Sensitive → a, A - are different
- keywords can't use → Let, var, Const

Writing case -

- camelCase
- snake_case
- PascalCase

boolean in JS → true / false

{ variable's data type can be changed in JS }

TypeScript → static typed ~~version of JS~~ build by microsoft

String in JS → defined in Quotes " or '
it is sequence of characters

String indices → start from 0, 1, 2 ----

- Variable [0] // "value"[0]
- Variable.length // "value".length

DATE

- Concatination → a = Ram b = Shyam
  c = a+b
  c = Ramshyam

null / undefined →

null ⇒ With no value
undefined ⇒ dont know the value

JavaScript - 2

Console.log ( ) →

- this is a function to Print something on console
  { log means write something (लिख देना)
- we can print many things together by separate them comma
  console.log ("A", B , C)

linking JS → .JS (extension type of Javascript)

- link by ⇒ script tag
- Place script tag at the end in body tag

PAGE

Template Literals →

` ------ ${ } ------ `

operators in JS →

Arithmetic → (+, - , * , / , % , **)
Unary → (++ , --)
assignment → (=, * =, -=, /=, % = , **=)
Comparison →
Logical →

Comparison operators → > , >= , < , <= , == , !=

- these are compare ~~the {variables/value}~~ of
  - value not type
- === → compare type and value

Comparision for non-numbers →

for non-number it compares their unicode

Conditional Statements →

if , if-else , Nested if-else , switch .

if statements →

```
if (condition){
    then do something
}
```

DATE

```
else if (condition) {
        code something
    }
```

- "else if" execute if "if" not true

```
else { code
    }
```

- if all conditions false then "else"'s condition Execute

nested if else →

```
if (condition) {
    if (condition) {
        }
}
```

Logical operators →

logical And	&&	(All condition need true for true)
logical OR	||	(At least one true for true)
logical Not	!	(opposite the condition T↔F)

truthy & falsey →

in JS everything has a boolean value

False values ⇒ false, 0, -0, Bigint value, empty string, null, undefined, NaN

PAGE

DATE

true → everything else from them

Switch statement →

```
switch (        ) {

    case —— :    some code ;    break;
    case —— :    ————— ;        break;
    case —— :    som—— ;        break;

    default :  some code ;

}
```

alert & prompts →

```
alert ("        ");              Alert popup on Page
console. error ("        ");     showing error in console
console. warn ("        ");      Showing warning in console

Prompt ("        ");             A input popup On page
```