

Java Script

→ javascript is a high-level
object-oriented multi-prog.
multi-paradigm programming language.

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Note if we have to write in-line "css" in html file
we write that in `<style>inlinecss</style>`.

→ Same if we have to write in-line "js" in html file
we write that in `<script> in-line js </script>`.

→ & both are written below `<title>` & not in `<head></head>`

title

<script>

```
let js = "amazing";
if (js === "amazing") alert("javascript is fun");
</script>
```

→ To point something in console e.g.

<script>

```
console.log(40 + 8 - 23 - 10);
```

</script>

→ in calculation

console.log() prints it's

result not the text.

we put

but in diff's it prints

text we type

- Now we can see the result in console in
browser inspect

[in console we see 15]

→ The result of our calculation

To link js file with html file

```
<script> src = "chapter1.js" </script>
```

→ if we js file is in other folder we have to give
correct path then using .. / foldername / etc.

Same in css file

Values & Variables

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→ a piece of
data.
(e.g.)

``` console.log ("Danish Nisar Kumar"); ````

→ Danish Nisar kumar is value!

→ box of memory in which we store  
our values e.g.

``` let firstName = "Danish Nisar Kumar"; ````

↓
here this is

variable in which

we store our (data or values). like (we can use it
now e.g)

``` console.log (firstName); ````

→ we get printed our value now (Danish Nisar).

→ it can be useful like e.g.

``` if Hello = "Brother"; ````

⇒ console.log (Hello);

⇒ console.log (Hello);

⇒ console.log (Hello);

```  
we got this result.

Hello, Brother.

Brother.

Brother.

→ now if we want to change its we only have  
to change in variable in 3 places like.

Mansa

``` if Hello = "Buddy"; ````

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~~# How to give name to the variable~~

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① Like if we have to give many words more than 1 word.

→ we type 1st word small then other in capital.

Like if variable name has to put (Hello Tom Kaisa) no

→ we write like. HelloTomKaisaHo ✓

→ this is the correct way but in modern js.

we can write all small or all capital. Like

~~HelloTomKaisa~~

① HelloTomKaisaHo ✓

② HelloTOMKAISAHo ✓

③ Hello-Tom-Kaisa-Ho. ✓

⇒ And we could not name by variable starts with number.

(e.g.) " 3Hello X. → no we could not start variable name with any no.

• But in middle or end we can put numbers. Like

let H3ell04506 = ✓

→ And also we can put symbols dollar sign in start not in middle & not in end. e.g.

(!, @, #, \$, %, ^, &, *).

(→ here only \$ & _ works) (dollar & underscore works)
here.

→ Also we can name variable that are part of javascript. like.

① new (is reserved keyword in js) so we could not

② function (also reserved keyword.) name them in variables.

→ we should not use variable name starts with Capital letter → we should start it with small letter. But why? (we read that later).

→ we type all capital for constants like-

PI = 3.1415;

→ we can also type like PI = 3.1415,
but in companies like PAGE we maintain

format of coding.

* Now what approach we use to write name of variable

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(e.g.)

①

let myFirstJob = "programmer";



let mySecondJob = "Teacher";

///

or

///

②

let job1 = "programmer";

/// let job2 = "teacher";

⇒ As we see to make our code cleaner we use Approach 1. (It is best Approach to make code clean).

Value

is either object or primitive

object (e.g.)

primitive (e.g.)

"let me = { name: "Danish" };";

let firstName = "Danish";

let age = 18;

There are 7 types of primitive data types.

① **Number** → floating point numbers means - used for decimals & integers (e.g) 21, 36.5

② **String** → sequence of character → used for text.

(e.g) let first name = "Danish"; string data type.

→ Always put in single Single or double quotes. otherwise .js will confuse & think these are variables not values.

③ **Boolean** → logical type that can be true or false → used for taking decisions. (e.g) let fullAge = true;

→ No need to put it in single PAGE because if we put they become strings then not bool

(1) **Undefined**: value taken by a variable that is not yet defined.
(empty value) e.g. let children;

e.g. ~~let child~~ ~~child =~~ here if no value so it is called undefined.

• why we use undefined becoz if in future we like add their anything then we can add.

(2) **Null**: Also means empty value ~~or user hasn't~~; but we use it in other circumstances don't worry about details of it for now. (for now just remember null also exists)

(3) **Signed (ES2015)**: Value that is unique & can't be changed
[This is not usefull now & adds].

(4) **BIGINT (ES2020)**: Larger integers than the no. type can hold.
→ In JS we can convert by // or by (parseInt())
→ & if we want many lines to convert once in the starting of first line type /* ... Then is last line at last type */

Actually a fun thing to do...

→ if we want to know that the value we type is what data type like is it (no., a string, Boolean)
Then we can do this like. (typeof).

```
console.log(typeof true);  
console.log(typeof false);  
console.log(typeof 29);  
console.log(typeof "Danish");
```

• You know what result we get.

- Boolean
- Boolean.
- Number
- String.

→ this is the response we got

js has dynamic typing:

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↳ means we can change the value of some variable if we want e.g.

① if we have " let hello = 23;

" console.log(hello);

→ it is number here (data type no).

② if we want to change the (value or data type)-

" hello = "Danish";

console.log(hello);

→ This time we don't type let. know it's wrong.

(string & also value changes)

it happens in some code.

& we can do it how many times we want).

just not type (let) again.

(eg)

③

""

hello = false;

console.log(false). console.log(hello);

④

""

hello = true;

console.log(hello);

we can also check this with typing each time.

console.log(typeof hello);

→ it tells us what see we are using right now