

JavaScript

- Introduction to JavaScript :-

1. JS in console
2. DOM manipulation
3. chrome extensions
4. what is a programming language?
5. what is syntax?
6. HTML/CSS/JavaScript

1. JS in console

Ex: alert ("Hello Javascript");

- Console can be used as a calculator :-

Ex: > 2 * 3

◆ 6

2. DOM manipulation



Document object model

Ex:

```
document.body.innerHTML = 'Welcome to KDN Coding'  
<-- 'Welcome to KDN Coding'
```

```
document.body.innerHTML = '<b>Welcome to KDN Coding</b>  
<-- '<b>Welcome to KDN Coding</b>'
```

3. Chrome extensions

- * Create features: Add new functionalities to chrome
- * Interact with web: modify or read webpage content
- * API Access: - use chrome's built-in function
- * User Experience :-

4. What is a programming language?

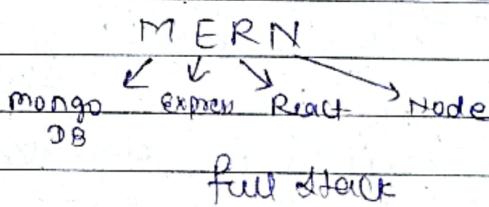
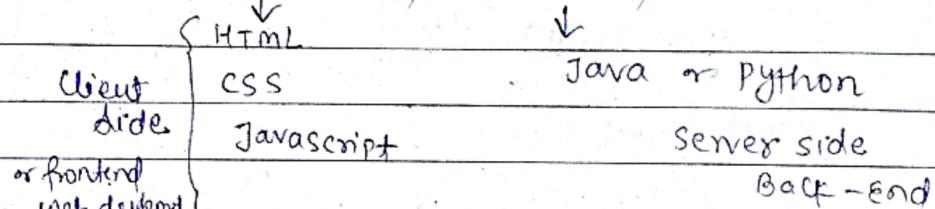
- Giving instructions to a computer
- Instructions: Tells computer what to do.
- These instructions are called code.

5. What is a syntax?

- Structure of words in a sentence.
- Rules of the language.
- For programming exact syntax must be followed.

Ex: alert("Hello World").

6:→ Frontend / Backend / Fullstack :→



6:→ Role of Browser :→

HTML - CSS - Javascript → Browser → web page

- Displays web page: Turns HTML code into what you see on screen.

- User clicks: Helps you interact with the web page.

- Updates content: Allows changes to the page using Javascript.

- Loads files: Gets HTML, images, etc., from the server.

→ Java Script :-

1. Javascript has nothing to do with Java.
2. Actions: enables interactivity.
3. updates: Alters page without reloading.
4. events: Responds to user actions.
5. Data: fetches & sends info to server.

Code → compile → executable

Code → transpiler → Code

- Javascript runs at client side in the browser.
- coffeescript / typescript are transpiled to javascript.

1. Practice exercise

- Use an alert to display Good morning.
- Display your name in a popup.
- Perform maths function

$$\Rightarrow 75 - 25, 3 + 3 - 5$$

- Change facebook page to display "I am learning JS".

* * * * * {Numbers & strings} * * * * *

- Arithmetic operations
- Order of operations
- Types of Numbers (Integers & floats)
- Don't learn syntax.
- Strings
- Type of operators

* Arithmetic Operators :-

"+" → Addition → $4+2 \rightarrow 6$

" - " → Subtraction → $4-2 \rightarrow 2$

" * " → Multiplication → $4*2 \rightarrow 8$

" / " → Division → $4/2 \rightarrow 2$

" % " → Modulus → $5 \% 2 \rightarrow 2$

* Order of Operations :-

	B	O	D	M	A S
	↓	↓	↓	↓	↓ ↓
	()	$\sqrt{\quad}$	\times^2	\div or *	multi Add subs

* Types of Numbers :-

[Integers] (-4, -3, 0, 1, 2)

↓
Negative
Nos

(-2, -3, -4)

↓
Whole no. (0, 1, 2, ...)

↓
Zero
(0)

↓
Natural no.
(1, 2, 3, ...)

Ex.: In google console:-

> Math.round(180.32)

↳ 180

* Don't learn the syntax :-

- Google :-

- MDN → In depth (read the documentation)

<https://developer.mozilla.org>

- ChatGPT : Real time assistance for coding queries.

- Focus : Understand concepts, not just syntax.

11 Strings :→

Ex: EXAMPLE

- String hold textual data, anything from a single character to paragraph.
- String can be defined using single quotes '' , double quotes " " , or backticks ` ` .

Ex:- "Hello world"

'Hello world'

`Hello world`

" You're welcome "

Ex:- '₹' + (5.9 + 0.1)

⇒ '₹6'

⇒ ₹ \$(5.9 + 0.1)'

⇒ '₹6'

Ex: 'Goodmorning' + 'Sanchitsir'

↳ Goodmorning sanchit sir

Ex: > 4 + 9 | > '4' + '9' | > 'you have got' + 4 + 5 + 'start's aux

↳ 13 | < '49' | ↳ you have got 4 + 5 starts aux of 5

Ex: > 'you have got' + 1 + 1 + 1 + 'votes'

↳ You have got 111 votes

Ex: > 'you have got' + (1 + 1 + 1) + 'votes'

↳ You have got 3 votes

12 Types of operation :→

1. Check Type : Tells you the data type of a variable
2. Syntax : Use it like `typeof` variable
3. Common Types : Returns "number," "string," "boolean," etc.

JS Types of function

Type of 'this is a string' → ('string')

Type of 1234 ← ('number')

typeof (11 == 11) ← ('boolean')

typeof

Keyword

Ex.: > typeof 1234
← 'number'

* * * * JavaScript With HTML & CSS * * * *

- VS Code IDE (Integrated development environment)
- HTML Tags Introduction
- CSS Introduction
- Script Tag
- Comments.

* IDE: → Integrated development environment

* central hub for coding, finding problems, & testing.

* Designed to improve developer efficiency

* Code automation

* Syntax highlighting

* Version control

* Error checking.

* HTML DOM:

- Structure understanding: Helps in understanding the hierarchical structure of a webpage, crucial for applying targeted CSS styles. & dynamic style, means real-time changing & interactivity.

through
CSS

↙ h1
 selector font-size : 30;
 ↘ ↓ ↓
 property value

declaration

{16. Query Selector} Javascript

- 1. getElementById : finds one element by its ID.
- 2. getElementsByClassName : finds elements by their class.
returns a list
- 3. querySelector : finds the first element that matches a CSS selector.
- 4. purpose : To interact with or modify webpage element

ex:- > document.getElementById('click-me')
 < <button id="click-me">Click me</button>
 > document.getElementById('click-me').click()

Ex:- > document.querySelector('h2')
 < - - -
 > document.querySelector('#click-me')
 <
 > document.querySelector('.click-me')
 <
 > document.querySelectorAll('.push-me')

17 Script Tag

- 1. embed code : Incorporates javascript into an HTML file, either directly or via external files.
- 2. placement : commonly placed in the `<head>` or just before the closing `</body>` tag to control when the script runs.

3. External files: we use `src` attribute to link external javascript files, like `<script src="script.js"></script>`

4. Console methods: `log`, `warn`, `error`, `clear`:

Ex: `console.log('Hello friends');`

`console.log(2+2);`

`console.log('Good morning' + ' Priyanshu');`

`console.error('this is error');`

`console.warn('Warning');`

** Comment in JS/CSS :-

1. `// console.log('Hello');`

2. `/* alert('Priyanshu raj') */`

** * in HTML:-

`<!-- hello -->`

*** Variables ***

- What are variables
- Syntax Rules
- Updating values
- Myntica Bag exercise
- Naming conventions
- Ways to create variables

→ Variable is used to store data!

Variable

Ex:- <script>

```
let bagsalary = 'Total amount is $ ${2+2/3}';
```

```
console.log(bagsalary);
```

```
</script>
```

1. Can't use keywords or reserved words.
2. Can't start with a number.
3. No special characters other than \$ and = is for assignment
4. ; means end of instruction

Ex:- let a = 3;

let b = 3;

```
console.log(a+b);
```

* Practice exercise:-

→ Myntra Bag

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Naming Conventions :-

① Camelcase :-

- Start with a lowercase letter. Capitalize the first letter of each subsequent word.
- Ex:- myVariableName

② Snake-case :-

- Start with an lowercase letter. Separate words with underscore.
- Ex:- my_variable_name

③ Kebab-case :-

- All lowercase letters. Separate words with hyphens. used for HTML and CSS
- Ex:- my-variable-name

④ Keep a Good and short Name :→

- choose names that are descriptive but not too long.
it should make it easy to understand the variable's purpose.

Ex:- age, firstName, isMarried.

24 Ways to create Variables :→

Ex:- <script>

```
let P = 3.14;  
let r = 4;  
console.log(P * r * r);  
</script>
```

Ex:-

```
let radius = 4;
```

```
const pi = 3.14;
```

```
var
```

Ex:-

To print on console

```
let myName = 'Priyanshu';  
console.log(myName);
```

To print on webpage

```
let myName = 'Priyanshu';  
document.querySelector('#name-display')
```

25 Project (Calculator) :→

26 if - else & Boolean : -

→ Data Type : Booleans are a basic data-type in JavaScript. (true / false)

→ 'true' is a string not a boolean.

Ex:- console.log(5 > 9); → false.

Ex:- console.log(typeof 'true');

26 Comparison operations:-

<, >, <=, >=, ==, !=

- Equality :-

== checks value equality.

== checks value & type equality.

- Inequality :-

!= checks value inequality.

!== checks value & type inequality.

- Relational :-

> greater than.

< less than.

console.log(5 == '5.0');

console.log(5 == '5');

↳ true

console.log(5 === '5.0');

console.log(5 === '5');

↳ false

27 if-else :-

- Syntax : uses if () {} to check a condition.

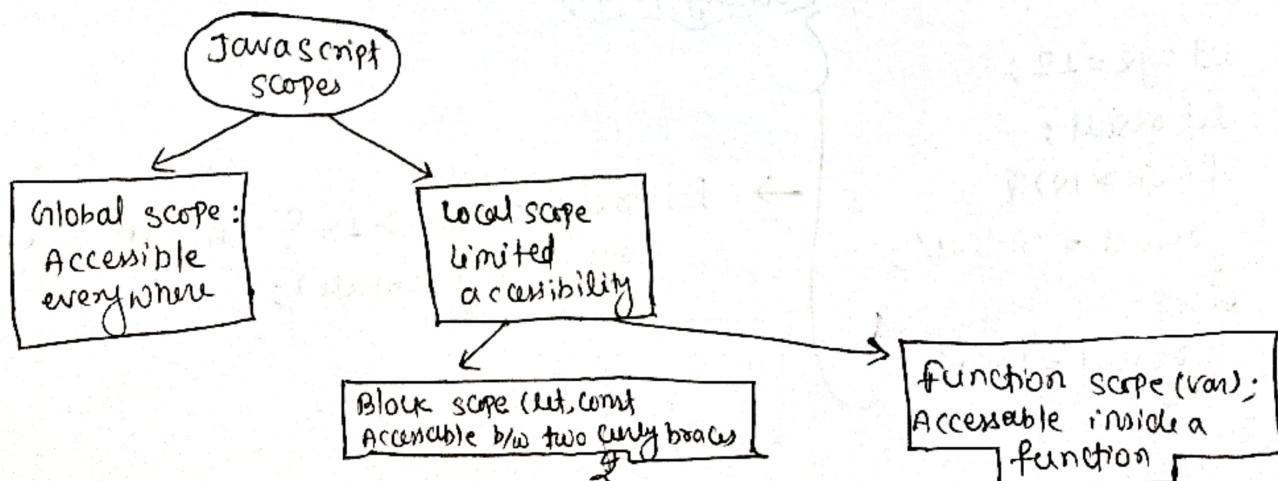
28 Bat-ball-stump project :-

→ math.random()

- Logical operators :-

① & & (AND), || (OR), !(NOT)

29 Scope :-



1. Any variable.
2. Variable can be redefined inside {}.
3. Var does not follow scope.
4. Global scope: Accessible everywhere in the code.
5. Block scope: Limited to a block, mainly with let & const.
6. Declare variables in the narrowest scope possible.

30.Truthy & falsy values

1. Falsy values: 0, null, undefined, false, NaN, "" (empty string).
2. Truthy values: All values not listed as falsy.
3. Used in conditional statements like if.
4. Non-boolean values are auto-converted in logical operations.
5. Be explicit in comparisons to avoid unexpected behavior.

31. If alternates

1. Ternary operator: condition ? trueValue : falseValue
Quick one-line if-else.
2. Nullish operator: value ?? defaultValue
use when a fallback value is needed.
3. Default operator: value ?? fallbackValue
use when you want to consider only null and undefined as falsy.
4. Simplifies conditional logic.
5. Use wisely to maintain readability.

Ex:-

```
let age = 12;
let result;
if (age > 18) {
  result = 'Adult';
} else {
  result = 'Kid'
```

Ternary operator



```
let result = age > 18 ? 'Adult' : 'Kid';
console.log(result);
```

(ii) Invert operator :-

```
let age = 0;  
let finalAge = age || 18;  
console.log(age);  
console.log(finalAge);
```

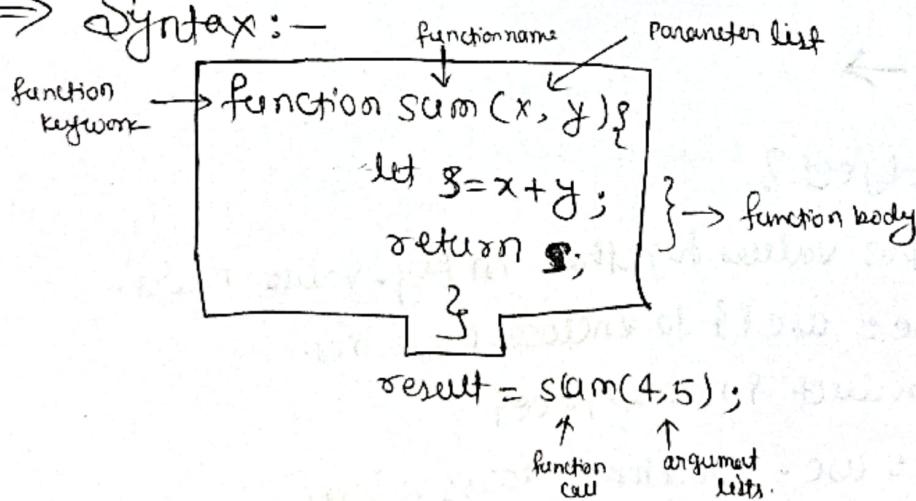
(iii) Default operator :-

```
let age = 0;  
let finalAge = age ?? 18;  
console.log(age)  
console.log(finalAge);
```

* functions :-

- What are functions
 - Function syntax
 - Return statement
 - Function parameters
- • Definition: Blocks of reusable code.
- DRY principle: "Don't Repeat yourself" it encourages code reusability.
 - Usage: organizes code and performs specific tasks.
 - Naming Rules: Same as variable names: camelCase
 - Example: "Beta ka band kar de".

⇒ Syntax:-



⇒ Parameters:-

- Input values that a function takes.
- Parameters put value into function, while return gets value out.
- Naming convention: same as variable names.

* Practice exercise:-

- ① Create a method to check if a number is odd or even.
- ② Create a method to return large of the two numbers.
- ③ Create method to convert Celsius to Fahrenheit $f = \left(\frac{9}{5}\right) * C + 32$.

Ex:-

```
function large (num1, num2) {
    if (num1 > num2) {
        return num1;
    } else {
        return num2;
    }
}
console.log(large(10, 20));
```

Ex:-

```
function toFahrenheit(C) {
    return (\frac{9}{5}) * C + 32;
}
console.log(toFahrenheit(30));
```

* * Objects :-

Q6] What is an object?

- Groups multiple values together in key-value pairs.
- How to Define: we'll use {} to enclose properties.
- Example: Product { name: "mango", price: 86 }
- Dot Notation: use . operator to access values.
- Key Benefit: organizes related data under a single name.

object name

```
let product = {
    Company: 'mango',
    item_name: 'Cotton striped t-shirt',
    price: 86
};
```

key value

```
let user = {
    name: "John",
    age: 40
};
```

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Accessing objects:-

- Dot Notation: Access properties using . operator
like: product.price
- Break Notation: useful for properties with special characters product ["nick-name"]. variables can be used to access properties.
- type of returns object.
- value can be added or removed to an object.
- Delete values using delete.
e.g. removing object
Ex:- > product.company
< mango .

- console.log(product);
- console.log(product.company);

- delete product.company;
- console.log(product);

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Inside object:-

Ex:- let product = {

company: 'mango',
itemName: 'cotton striped t-shirt',

price: 86,

rating: {

stars: 4.5,

no.ofReviews: 87

},

displayPrice: function () {

return '\$\$ \${this.price.toFixed(2)}';

};

(4)

- objects can contain primitives like numbers & strings.
- objects can contain other objects and are called nested objects.
- functions can be object properties.
- funcs inside an object are called methods.
- Null values: Intentionally leaving a property empty.

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Autoboxing: →

1. Automatic conversion of primitives to objects.
2. Allows properties & methods to be used on primitives.
3. Example: strings have properties and methods like length, toupperCase, etc.

Ex:- > console.log('I am priyanshu'.length);] get count space as well.
 < 14

> console.log('I am priyanshu'.toUpperCase());
 > " " (" ") " " toLowerCase();
 < I AM PRIYANSHU

Ex:- console.log('This is kG coding'.replace('kG', 'knowledge mate'));

41. Object References

- Objects work based on references, not actual data.
- Copying an object copies the reference, not the actual object.
- When comparing with ==, you are comparing references, not content.
- Changes to one reference affects all copies.

Ex:- let a = 5;
 let b = a;
 console.log(`a=\${a}, b=\${b}`);
 a=8;
 console.log(`a=\${a}, b=\${b}`);

< {a=5, b=5
 a=8, b=5}

```

Ex: let p = { pop: 'lujh' };
let q = { pop: 'lujh' };
console.log(p === q);
> false

```

To compare the two objects whether same or not.

42. Object shortcuts

- De-structuring : extract properties from objects easily.
- We can extract more than one property at once .
- Shorthand property : { message : message }
Simplifies to just message .
- Shorthand method : Define methods directly inside the object without the function keyword.

// Destructuring :-

```

let product = {
  Company: 'mango',
  ItemName: 'Cotton striped t-shirt',
  Price : 861
};

let company = product.Company
let {Company} = product;

```

// Property shorthand :-

```

let price = 861;
let product = {
  Company : 'mango'
  ItemName : 'cotton striped t-shirt',
  Price : price
};

```

```

let product1 = {
  Company : 'mango',
  ItemName: 'cotton striped t-shirt',
  Price
};

```

// Method shorthand :

```

let Product = {
  Company : 'mango',
  ItemName: 'cotton striped t-shirt',
  displayprice : function () {
    return '$$ (' + this.Price + '.toFixed(2))';
  }
};

let product1 = {
  Company : 'mango'
  ItemName: 'cotton tew'
};

```

```

5   displayprice() {
      return '$$ (' + this.Price + '.toFixed(2));
}

```

let sum2 = (num1, num2) => num1 + num2;

let sum3 = num => num + num; (9)

* practice exercise (objects) :-

1. create object to represent a product from myntra.
2. create an object with two references and log changes to one object by changing the other one.
3. use bracket notation to display delivery-time.
4. Given an object { message: 'good job', status: 'Complete' }, use de-structuring to create two variables message and status.
5. Add function isIdenticalproduct to compare two product objects.

41. Object references

- 1. Objects work based on references, not actual data.
- 2. Copying an object copies the references not the actual object.
- 3. When computing with ==, you are comparing references, not content.
- 4. Changes to one reference affects all copies.

43. JSON, Local storage, Date & DOM

- 43. What is JSON?
- 44. Local storage
- 45. Date
- 46. DOM properties & methods.

- Javascript object Notation : Not the same as JS object, but similar.
- Common in network calls & data storage.
- JSON.stringify() and JSON.parse()
- strings are easy to transport over network.
- JSON requires double quotes. Escaped as \.
- JSON is data format, JS object is a data structure.

let square = num => num * num; (9)

Ex:- Javascript object

```
{firstname: "sam",  
  lastname: "feran",
```

|
|
key value

JSON object

```
{ "firstname": "sam",  
  "lastname": "fernandes"}
```

|
|
JSON.stringify

44. Local Storage

→ persistent data storage in the browser.

→ SetItem: Stores data as key - value pairs.

→ only strings can be stored.

→ getItem : Retrieves data based on key.

→ Other methods: localStorage.clear(), removeItem()

→ Do not store sensitive information. viewable in Storage Console.

Ex:- localStorage.setItem

```
  "user", {
```

```
    JSON.stringify({
```

```
      name: "Gopi Chaudhary"
```

```
      age: 32});
```

```
)
```

const user = JSON.parse(

```
localStorage.getItem("user"));
```

Ex:- localStorage.setItem ('name', 'kaCoding');

```
localStorage.setItem ('price', '3456');
```

45. Date

1. new Date() creates a new date object with the current date & time.
2. key methods: →

let square = num => num * num; (9)

⑥

(9)

- `getTime()`: milliseconds since epoch.
- `getFullYear()`: 4-digit year
- `getDay()`: Day of the week
- `getMinutes()`: Current minute
- `getHours()`: Current hour.
- Crucial for timestamps, scheduling, etc.

46. DOM properties & methods

DOM and Element Properties: → DOM & Element methods: →

- 1. location
- 2. title
- 3. href
- 4. domain
- 5. innerHTML
- 6. innerText
- 7. classList

- 1. getElementById()
- 2. querySelector()
- 3. classList: add(), remove()
- 4. createElement()
- 5. appendChild()
- 6. removeChild()
- 7. replaceChild()

Practice exercise

JSON, Local storage, Date & DOM

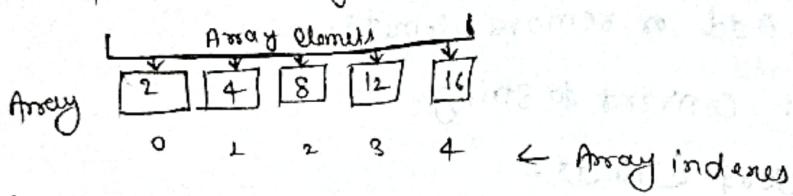
- ① Display good morning, afternoon & night based on current hour.
- ② Add the name to the output too.
- ③ Create a button which shows the no. how many times it has been pressed.
 - Also, it has different colors for when it has been pressed odd or even times.
 - The click count should also survive browser refresh.

47. Array & Loops

- 47. What is an Array?
- 48. Array syntax & values
- 49. Array properties and methods
- 50. what is a loop?
- 51. while loop
- 52. Do while loop

- 53. for loop
- 54. Accumulator pattern
- 55. Break & Continue

* ① what is an array?



- An array is just a list of values.
- Index : starts with 0.
- Arrays are used for storing multiple values in a single variable.

Syntax :-

```
let myArray = [ ];
```

- Use [] to create a new array. [] brackets enclose list of values.
- Array can be saved to a variable.
- Accessing values : Use [] with index.
- Syntax rules:-
 - Brackets start and end the array.
 - values separated by commas.
 - Can span multiple lines.
- Arrays can hold any value, including arrays.
- typeof operator on Array returns object.

Ex: let numbers = [1, 2, 3, 4, 5]

- console.log(numbers); \Rightarrow output: [1, 2, 3, 4, 5]
- console.log(numbers[4]) \Rightarrow " 5 "

49. Array properties & methods

1. Array .isArray() checks if a variable is an array.

2. length property holds the size of the array.

3. Common methods:-

- push/pop : Add or remove to end
- shift/unshift : Add or remove from front.
- splice : Add or remove elements.
- toString : Convert to string.
- sort : Sort elements.
- valueOf : Get array itself

4. Arrays also use reference like objects.

5. De-structuring also works for Arrays.

Ex: console.log(Array.isArray(numbers)); \Rightarrow true

Ex: console.log(numbers.length);

Ex: arr.push(5);

Ex: arr.pop(3);

Ex: let arr = [3, 5, 7, 6]

console.splice(1, 2);

\Rightarrow Output [3, 6]

Ex: push/unshift
↓
additive add at the
end beginning

Ex: arr.log(arr.toString());

~~Ans~~

Ex: arr.sort();

Ex: arr.valueOf();

{ output: [3, 5, 6, 7] }

let sum = num + num \Rightarrow num * num; (9)

→ References: —

```
Ex: let arr2 = arr;  
    arr2[0] = 22;  
    console.log(arr);
```

50. What is loop?

1. Code that runs multiple times based on a condition.
2. Loops also alter the flow of execution, similar to functions.
 - Functions : Reusable blocks of code.
 - Loops : Repeated execution of code.
3. Loops automate repetitive.
`for, while, do while, etc.`

51. While loop

```
while (condition) {  
    do something  
}
```

```
Ex: let num = 1;  
    while (n <= 50) {  
        console.log(num);  
        num++;  
    }
```

52. Do while loop

```
do {  
}  
while (condition);
```

```
Ex: let n = 0  
do {  
    console.log(n);  
    n++;  
}  
while (n < 5);
```

53. for loop

```
for (initialize; condition; update) {  
    ...  
}
```

```
Ex-: for(let i=0 ; i<10 ; i++) {  
    console.log(i);  
}
```

54. Accumulator pattern

- A pattern to accumulate values through looping.

- Common Scenarios:

- Sum all the numbers in an array.
 - Create a modified copy of an array.

55. Break & continue

- Break lets you stop a loop early, or break out of a loop.
 - Continue is used to skip one iteration or the current iteration.
 - In while loop remember to do the increment manually before using continue.

```
Ex-: let arr = [1,2,3,4,5,6,7,8];  
arr1 = arr.slice(1,4);  
Console.log(arr1);  
⇒ [2,3,4].
```

A no. is prime or not?

→ <script>

```
function isPrime(num) {
```

```

for(let i=2; i<num; i++) {
    if(num % i == 0) {
        return false;
    }
}
console.log(isprime(s));

```

> true

Q In array [1, -6, 5, 7] print positive no.

→ let arr[1, -6, 5, 7, -98];

```
for (let index = 0; index <= 4  
      index++) {  
    if (arr[index] < 0) {  
      continue;  
    }  
    else {  
      console.log(arr[index]);  
    }  
}
```

Project → To do list

and Advance function

56 Anonymous functions As Values

57 Arrow functions

58 SetTimeout & SetInterval

59 Event listeners

60 for each loop

61 Array methods.

56 Anonymous function As Values :-

- let sum = function (num1, num2) {
 return num1 + num2;
}
- functions in JavaScript are first-class citizens ; they can be assigned to variables.
- functions defined without a name , often assigned to a variable .
- Anonymous functions can be properties in objects .
- Can be passed as arguments to other functions .
- Invoked using () after the function name or variable .
- console.log(myfunction); and typeof myfunction will both include it's a function .

57 Arrow functions :-

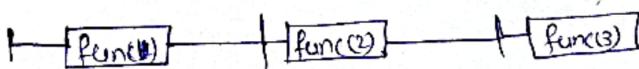
```
let sum = function (num1, num2) {  
    return num1 + num2;  
}
```

```
let sum1 = (num1, num2) => {  
    return num1 + num2;  
}
```

```
let sum2 = (num1, num2) => num1 + num2;  
let square = num => num * num; (9)
```

1. A concise way to write anonymous functions.
2. for single argument: Round brackets optional.
3. for single line: Curly brackets & return optional.
4. often used when passing function as arguments.

58. setTimeout & setInterval



1. functions for executing code asynchronously after a delay.
2. setTimeout runs once; setInterval runs repeatedly
3. setTimeout:
 - Syntax: `setTimeout(function, time)`
 - cancel: `clearTimeout(timerID)`
4. setInterval:
 - Syntax: `setInterval(function, time)`
 - cancel: `clearInterval(intervalID)`

59. Event Listener

```

const button = document.querySelector(".btn")
button.addEventListener("click", event => {
  console.log("Hello!");
})
  
```

1. what is an event: occurrence like clicks, mouse movement, keyboard input (e.g., birthday, functions).
2. using querySelector to attach listeners.
3. multiple listeners: you can add more than one.
4. `removeEventListener('event', functionName);`

60. for each loop

```
let foods = ['bread', 'rice', 'meat', 'pizza'];
foods.forEach(function (food) {
    console.log(food);
})
```

- A method for array iteration, often preferred for readability.
- Parameters: one for item, optional second for index.
- Using return is similar to continue in traditional loops.
- Not straightforward to break out of a forEach loop.
- When you need to perform an action on each array element and don't need to break early.

61. Array methods

[-, -, --] • map(cook) \Rightarrow [--, --, -]

[-, -, --] • filter(isVegetarian) \Rightarrow [-, -]

1. filter method:

- Syntax: arr.filter((value, index) \Rightarrow return true/false)
- Use: filters elements based on condition.

2. map method:

- Syntax: array.map((value) \Rightarrow return newValue)
- Use: Transforms each element.

Ex:- let arr = [1, 2, 3, 4, 5, 6, 7, 8, 9];

```
let odds = arr.filter((num, index) => {
    return num % 2 !== 0;
})
```

```
let newodds = arr.filter(  
    (num, index) => num % 2 === 1  
)  
console.log(newodds);
```

Practice exercise

~~Advance functions~~

1. create a variable multiply and assign a function to this variable that multiplies two numbers. Call this method from the variable.
2. create a function runTwice that takes a function as a parameter and then runs that method twice.
3. create a button which should grow double in size on clicking after 2 seconds.
4. In the above exercise add the behavior using an event listener instead of onclick.
5. create a function that sums an array of numbers. Do this using a for-each loop.
6. create a function that takes an array of numbers and return their squares map function.

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Project :> Myntra Web.

Complete JavaScript