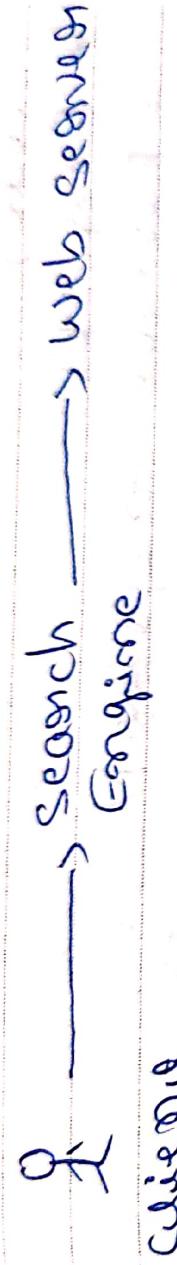


Date 22/09/2022

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JavaScipt Concept

1. JavaScipt, Dom & JavaScript Concept:



- * Client request :- Google.com, Amazon.com
- * Server response :- containing the HTML + CSS + JavaScript files.

JavaScipt Usage:

- ⇒ JavaScipt is a high-level programming language.
- ↳ JavaScipt language is understood computer.

- ⇒ Every programming language has a begin & end of back-end.

- ⇒ Event based :- hover, click, load, etc.

⇒ Behavior of the web page.

HTML → Is a structure body, Empty Body
⇒ CSS → Is a color, size, position,
JavaScipt → Behavior, & will support function.

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Tanacetum, where it grows.

- * Energy balance on how a Tanacetum requires
[Not common in Tanacetum & onto Bonsai
code]

Conditions:

- ↳ Fertilizer → Spider Mite
Ply Chrysanthemum → Chrysanthemum - V8.

- * Tanacetum code can be run alongside the
balance on the node.

* Node:

- ↳ Good development tools Tanacetum
in Chrysanthemum & Tanacetum C++
program.



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Console Concepts:

1. `console.log("Hi Lucy")`:
= It will display message on console.
2. `console.clear()`:
= It will clear the data from the Dom.
3. `console.warn(message)`:
= It will created warning message.
4. `console.error("This is error message")`:
= Display error message.
5. `console.assert(0>2, "It is not possible")`:
= Assertion failed = msg.
Basically like if else of failure (if - else).
6. `console.table([1,2,3,4])`:
= Display table format.

Index	Value
0	1
1	2
2	3
3	4
7. `console.time("code")`: { It displays the time from starting of console. } `timeEnd("code")`: { time from ending of console. }



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Variabiles:

- * It is a storage of conscience or
- * For declaring variables, Following structure is we can declare.
var name;
" " form:
" " sum;
" " -num;
- * The name & Num both are different variable.

Types of Variable:

- 1) Varibl:
- * global variable,
- * not a scope of variable
- * we can use outside file.

Locat:

- * scope of variable ($\{ \dots \}$)

Constat:

- * we const modified value of variable
- * once we declared as const variable, we need to write this.



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Ex: var num = 10;
 console.log(num) // 10

let num = 20;
console.log(num) // 20;

{ var num = 50;

console.log(num) // 50;

Ex const name = "Lucky";
 console.log(name); // Lucky;
name = "Apple"; // Error,
 console.log(name);

Difference b/w var, let, const
var - Hoisting also works
* Global scope, - we can use outside the block & inside block
with reinitialization, & declare with same variable.
let

* Block scoped - we cannot use outside block & not redeclaration



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Data Types

- i) Primitive Data Types
 - ii) non-Pointers like D.T
 - iii) Numbers
 - iv) String
 - v) Boolean
 - vi) null
 - vii) undefined
 - viii) symbol
- ix) Object

console.log(num); // number

* There is a method to check the data type.
= type of (variable_name).

?> var age = 20;

console.log(typeof(age)); // number.

?> var name = "H& Luky";
console.log(name); // H& Luky;

→ we can use ' ' quote and ' ' if we use just () symbol, we can easily do add , or, " some values.

?> var bag = true;

Ans) null is a P.T but considered as object.
It means holding as a buffer value.



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Concordia 15.

卷之三

- i) If - ∞ ,
 - ii) negated of.
 - iii) suggests

loopis

- ① Whole loop:

 - It's displaying sequentiality

Syntax:

while (condition)

2

2

$$\Sigma x_i = 1.$$

879

cohesive ($\delta L = 10$) ||| 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

1

Console.log(*value*);

140

Mo Tu We Th

② do-while:
A loop that runs until
a condition is true.

```
for( let i=10;
```

```
do
```

```
    console.log(i);
```

```
i++;
```

```
}
```

```
while (i<=10);
```

③ for loop:

```
for( let i=0; i<10; i++)
    console.log(i);
```



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String Processing Methods:

- ① charAt(i): → returns a character value.
- ② charAt(0):
returns ASCII value.
- ③ concat():
joins two or more strings.
- ④ endWith():
checks whether a string ends with a specified value.
- ⑤ fromCharCode():
converts a character code into a string.
- ⑥ includes(str):
checks whether a string contains the specified string (str = "Hello Hi")
- ⑦ indexOf():
finds the first occurrence of a specified value in a string.
- ⑧ LastIndexOf():
returns the last occurrence.



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⑧ match:

Search a string for a match by pattern
the matches

Ex- `cat = "He is running He is running"`

`str. match(Cat / He\is/gi)` // He is He is

⑨ search():

Reuturns a no. of strings which a strng
-ed valuse are suppled

Ex- `str=search("He is running He is running", "He")`

⑩ replace():

Replaces a no. of strings which a strng
-ed valuse are suppled
Ex- `str.replace("He", "She")`

⑪ search():

Returing the position of the match
Ex- `str = "He is second running"
int s = str. search("He")`

⑫ slice():

Extracts a part of a string by putting
a no. of colon

Ex- `str.slice(2, 5)` // Hee
Ex- `str.slice(0, 5)` // He is
Ex- `str.slice(0, 5) + "Hello!"` // Hello!

⑬ split():

Splits a string into an array of
substrings
- Array of substrings

- Array of substrings



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⑭ startswith():

lett `s1 = "Tavas couplet. Couplet"`
lett `s = s1.replace("Tavas", "C")`;
: checks whether string `s` started with
some possessive.
And returning boolean value.

⑮ tolowercase(): to locale lowercase()
converts from lower case to
`s1 = s1.lower()`;

⑯ uppercase(): to locale uppercase()
converts to uppercase all characters.

⑰ lstrip():
removes the spaces at the beginning of string
Ex lett `s = " 456 84 "`
lett `s1 = s.lstrip()`; // removes
spaces at the beginning of string.

⑱ rtrim():
removes the spaces at the end of string
lett `s1 = " Tavas couplet "`;
lett `s = s1.rstrip()`; // removes
spaces at the end of string.

⑲ ljust():
padding the string by adding spaces.
lett `s1 = " Tavas couplet "`;
lett `s = s1.ljust(20)`; // Tavas couplet.



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(20) substitution (1):

slice (2):

- * start = end index.
- * start = end index
empty string
- * end index $>$ str.length
- * consider as string length as end index.
- * If the end index is not given, so slice consider as length portion the whole string.
- * If the start $>$ end index. * Resturns the empty string.
- * If we give empty or non consider as 0.
- * Resturns portion the end.

* base as 3rd.

(21) substitution (2):

str.slice(1, 2)

- 1st will take a part of the string from starting index to length of char -1.

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ArrayList

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- * ArrayList is a static container which stores data in a single variable.
arr = [S1, S2, S3];
- * If you access ArrayList values wrong position.

ArrayList Methods:

arr = [a, 4, 6, 1, 3];

- ① toString(): ArrayList can be = separator. Eg arr = [2, 4, 6, 1, 3].
ArrayList can't be changed.
- * It returns the ArrayList as a String.

② push():

At the end pushes the element

arr = [2, 4, 6]

arr.push(5); // 2, 4, 6, 1, 3, 5

③ pop():

At the end removes the element.

arr.pop(); // 2, 4, 6, 1, 3

④ shift():

It's a opposite to the pop().

At the first remove the element. arr[0] = 2, 4, 6, 1, 3

⑤ unshift():

At the first place to add the value.

arr.unshift(7); arr[0] = 7, 2, 4, 6, 1, 3



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⑤ splice () :

We can add any element on the any position in the array.

Ex asen.splice(2, 0, 3):



we need to add value to the position remove array.

⑥ concat () :

adding multiple arrays is onto new array.

let asen = [1, 2, 3].

let asen1 = [4, 5].

let res = asen.concat(asen1); // 1, 2, 3, 4, 5

⑦ slice () :

we can get existing pieces - ~~slice~~ given borders to upto end given border.

Ex asen.slice(1, 3):

1, 2, 3

⑧ map () :

Create a new array, by performing operation

on each element of a given array.
asen.map (item) =>

returning current

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⑥ Piloter:

- * create a new array, with memory elements which pass a test.

- * Based on the condition, if condition is satisfied set value to true.

$$\text{Ex: } \text{let arr} = [35, 29, 8, 9, 45].$$

$$\text{arr. Piloter}(\text{item}) \Rightarrow$$

01P

$$\text{arrum item} > 29; \\ 35, 45.$$

f

⑩ Somewh:

- * Returns boolean value.

- * If the condition given is true or false,

$$\text{arr. Somewh}(\text{item}) \Rightarrow$$

01P

$$\text{arrum item} > 29; \\ \text{true}.$$

b

⑪ reduce:

- * reduce is a function and it will return a single value.

$$\text{arr. reduce}(\text{sum, item}) \Rightarrow$$

01P

$$\text{arrum sum + item}; \\ \text{Initial sum}$$

g



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(12) Energy :-

- * Reasons due to false, if the all elements goes the does the guest or does.
 - * Energy allowing conductivity is saturated.
- ans = $[2, 4, 6]$
- ans. energy (Q) = $\frac{OIP}{OIP}$ due.

2. saturation $W_{th} = 0$.
3.

(13) Band :-

- * Reasons Right energy result that passes the condition.

e.g. ans = $[2, 4, 6, 8]$:

ans. band (C₈) = $\frac{OIP}{6}$.

4. saturation $E > 5$:

5.

(14) Band Disorder :-

- * Reversing conduct position.
- * Right element not.

ans = $[2, 4, 6]$:

OIP

ans. band disorder (C₈) = $\frac{OIP}{2}$.

6.

7. saturation $E > 4$:

8.



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FUNCTIONS:

- * REUS USED TO FOR GENERALIZE CODE.
- * IS A BLOCK OF CODE DESIGNED TO PERFORM A PARTICULAR ACTION.

function myFunction(a, b)

and return ab;

{

myFunction(10, 20);

OP
200

* forEach()

CALLS A FUNCTION FOR EACH ELEMENT.

On const no = [65, 44, 12, 4];
= no.forEach(function (value, index, array)

{
 no[index] = value * 10;

{
 console.log (no); // 650, 440, 120, 40;

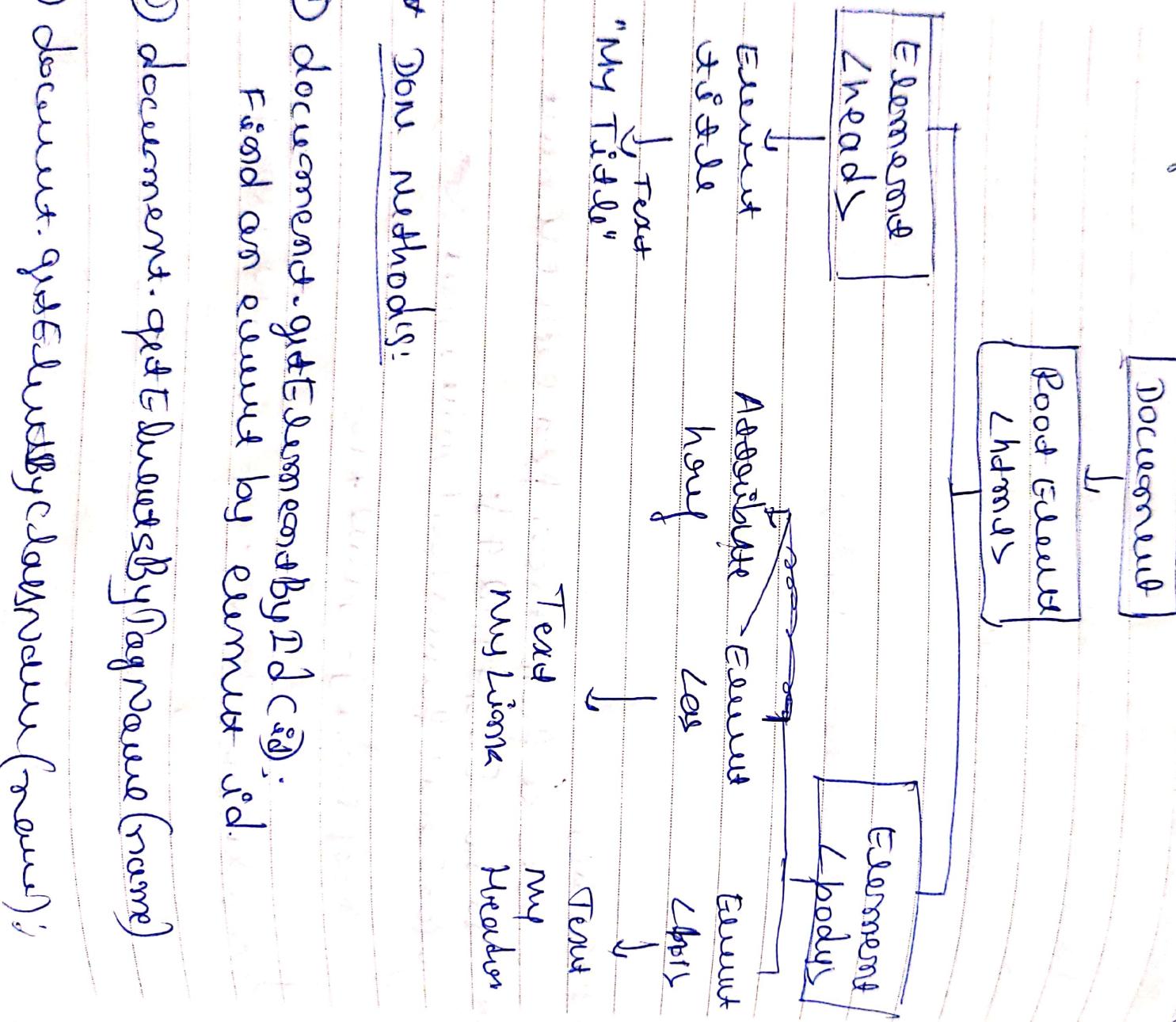


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Don: Document Object Model

- * when a web page is loaded, the browser creates a Document Object Model made of the page.



SQL Methods:

- ① document.getDocumentsByDocId:
Find an element by element id.
- ② document.getDocumentsByColumnName(name):
document.getDocumentsByColumnName("name");
- ③ document.getDocumentsByCategory(id):
document.getDocumentsByCategory("id");

① document-gt; lesson card by Td C. ②
Find an event by event

Open Access

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* awfully bad condition!

* questions the right elements that matches a specified case see [Q2](#) in the document.

document.querySelector('css selector')

* Aug 28, Boston Advertiser:
On Monday evening all the matches, use the

Answer Selected Address

15

Document query selector (css selector)

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Tracing Events:

① setTimedout():

executes a block of code after a specific time (only once).

- fired the first only once.

Ex: function helloWorld ()

console.log ("Hi there").

↳ setTimedout (HelloWorld, 3000):

console.log ("I am");

010

Hello.
Hi there

② clearTimedout():

to clear set some out. method.

Ex:

③ setInterval():

executes repeatedly given function at every given time (continually). (continuous call the function)

④ clearInterval():



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Try by catch:-

- ① Try:-
Statement lets you run a block of code.

- ② Catch:-

Say less handle the error.

Type's of Error:-

- ① Range Error:-

Thrown when a number is outside the range.

e.g. `Array(1 - 100) → If we search 100, will get error.`

- ② Reference Error:-

Thrown when a reference made to a variable is broken or does not exist.

e.g. `a = 10;`

`a + b // Reference Error.`

∴ Because of b is not declared & considered.

- ③ Syntax Error:-

when the code is understood by JS

- ④ Type Error:-

when operators & wrong using data types
e.g. `str str = "abc"`

~~str str = "abc"~~



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⑤ can say

console.log ("Hello world");
Run

↳ catch (err)

↳ console.log ("There is a error in my block")
↳ " " (err);

error.message = There is a error
err.name = Reference Error,
err. stack = Person the all sentence.

using try

The code
includes
executing show the error.

Finally is
whichever the operating of saying each
we have to perform the final operation.
↳ try &
↳ catch (err)
↳

↳ finally
↳ console.log ("Finally done")
↳



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Given the do example:

Input

a

if ($\alpha == 11$) throw "It's too empty".
if (NON(α)) throw "and a Number".
if ($\alpha > 100$) throw "It's too high".
if ($\alpha < 10$) throw "It's too low".

catch (Error)

console.log (error);

for



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Regular Expression

- * RE is a sequence of characters that form a search pattern.

① search():

(i) exec():

It returns a match object or null.

Ex: `res = /JavaScropt/.
exec(ses = "This is a pure JavaScropt tutorial
for beginners".`

Set `resut = res.exec(ses);`

`|| console.log(resut);`

Output

```
[{"value": "JavaScropt", "index": 15, "input": "This is a pure JavaScropt tutorial  
for beginners."}]
```

(ii) test():

② match():

③ replace():



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Add Event & Session(s):

* add Ewendisderence) is an embossed fumigation
on Tano script which dates the envelope to
December. 1881.

golden eagle (Centrocercus urophasianus); summer.

\Rightarrow est: ~~Libraries~~ 'conclua' = "No" \Rightarrow Add Error Libraries
LP sd = "swap" \Rightarrow LP

document, add `EndWith` ("saupi"). add `EndWith` -
-signature ("cyclic"), function `W`

document, get E-mail by Ed
-signature ("ccclia", from
a ^{old} "Hello")
EP&HWWO LIP

٦٣

remove EventListener()

pi
btm. sermone Ewangelie predigen ("predikieren", fund-
-
- 100 C)

1

5

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Class List Method:

- * Is a DOM property of a JS. So it will do styling of CSS classes of element.
- classList.add("class-names")
- classList.remove("class-name")
- classList.toggle("class-name")
- classList.length
- classList.contains("class-name")
- classList.item(index)
- classList.forEach(function)



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* createElement():

Method creates n.

If you want create any method's (HTML element's) with Specified name.

Ex:- createElement("div"):
Ex:- document.documentElement.appendchild();

* parentNode :

It contains the parent node of specified node.

Ex:- di → ul → Body → HTML → document.

* parentElement :

Ex:- li → ul → Body → HTML → null.

add = () =>

y

y



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Date: 1.1.

JavaScript Promises

Promise

fulfilled pending rejected

resolves rejected

then() catch()

function prom() {

```
return new Promise(function(resolve, reject) {
    console.log('Waiting')
    setTimeout(() => {
        if (true)
            resolve('successful')
        else
            reject('unsuccessful')
    }, 2000)
})
```

→ call

```
promise().then(res => console.log(res))
            (at this step → console.log(res))
```

13/11/2022

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→ Async & Await →

→ To overcome promise - Then, catch - Async feature.

→ Synchronous - Step by step.

Synchronous → Sync

with Async

Sync function name
→ 2
wait 3

myfunction() {
 console.log('start')
 setTimeout(() => {
 console.log('my fun')
 }, 3000)
}

async log()

Console.log('End')

name()
log()

→ off
start
Function
End:

My fun

1, 2, 3, 4, 5, 6, 7, 8,

Constructor : → 1 Blueprint → 0 in number of objects

→ It is a function that creates an instance of class
which typically called an object. It is called
when you declare an object using new keyword.

function User(first, last) {
 this.firstName = first;
 this.lastName = last;
}
let user = new User('Kashif', 'Adarvi');

console.log(user)



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* Relieving responsive using Mobile object
Mobile, Desktop, Tablet views.

= navigator.userAgent.toLowercase().
Mobile view

const isMobile = /Android|webOS|iPhone|iPad|BlackBerry|Symbian|Opera Mini|Iphone|Ipad|
Cravigato|UserAgent.toLowercase();

obj "merry, myth" = if

if (isMobile)

& this.setState

(x)
A story.length: 3

}

Tablet view:

const isTablet = / (ipad|tablet|kindle)(?!.*playbook)|windows(?!.*photo)(.*touch)|kindle|
if & test (navigator.(?!.*(Ip|Ap|Wp)))/
if (isTablet)
& this.setState

(x)

(x)



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Objects

① we can create objects following ways:

i) const obj = {name: 'Lucy', age: 25};
ii) const obj = {
 name: 'Lucy',
 age: 25};

obj.age = 25;

iii) const obj = new Object();

obj.name = 'Lucy';
obj.age = 25;

* Objects are mutable (changeable).

i) They are addressed by reference.

not by value.

Ex: const x = person; // here x is a ref.

// will not create a copy of person.

ii) Both x & person have the same object.

iii) Any changes to x will also change person,
because x and person are the same object.

Ex: const person = {

name: 'Lucy',
 age: 25

age: 30;

}

const x = person; age 130

x.age = 30;

L> will change both x.age &
person.age



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* Primitive types are immutable.

② Accessing JavaScript Objects

- Object-name. property
- Object-name. ["property"];
- Object-name [expression]

- * JavaScript for...in Loop
 - for (let variable in object)
 - // code to be executed

```
Ex const person = {  
    forename: 'Lucky',  
    name:  
    middle_name:  
    surname: 'Pujaon',  
    age: 25,  
    test: 'test'  
};  
  
const result = test + = person // result = test + person  
  
console.log(result) // lucky Pujaon 25
```

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JavaScript Generators

- * In JavaScript, generators provide a new way to work with functions by ~~iterating~~ using generators
- * you can stop the execution of a function from anywhere inside the function.
- * and continue executing code from a halted position.

Syntax

```
function* generator-function()
```

```
{}  
// Execution of generator function
```

```
// Creating generator: new generator-object = generator-function();  
const generatorObj = generator-function();
```

- * we can pause the execution of a generator function without executing the whole function body. For that, we use the yield keyword.

```
function* generator-definition  
function* generator-function()
```

```
{  
  console.log("1. code before the yield keyword")  
  yield 100;  
  console.log("2. code after the yield keyword")  
}
```

```
const generator = generator-function:  
  console.log(generator);
```



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Syntax, parse():

- ① It ~~deserializes~~ ~~a JSON string into~~ a ~~JavaScipt object~~.

String.toStringify():

- ② It ~~serializes~~ ~~a JavaScipt object~~ into a ~~JSON string~~.

```
JSON.parse(strObj) = {name: "Lucky", age: 25};  
= JSON.stringify(parseObj)
```

```
① strObj = "{'name': 'Lucky', 'age': 25}"; // JSON string  
// convert JSON string to JavaScript Object.
```

```
var convertToJsonObj = JSON.parse(strObj);  
// name: "Lucky", age: 25  
typeof(convertToJsonObj) = // Object.
```

```
② strObj = "{'name': 'Lucky', 'age': 25}";  
// convert JavaScript Object to JSON string
```

```
var convertToJsonObj = JSON.stringify(strObj);  
if ("name": "Lucky", "age": 25) // String
```



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JavaScript closures

What is Lexical Scope?

Function scope do access variable from the parent scope, we call the child function to be lexically bound by that of the parent function.

On function outer

& const a = 1;

function inner

& const b = 2;

console.log(a + b);

↳ generic

↳ Outer();



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Date ES-6 features

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① Promises!

using for asynchronous operations.

Ex:

var asynCall = new Promise((res, rej) =>

2

if some logic
rejects the promise

4). Then $CW \Rightarrow$ $Q \rightarrow$ $Q \rightarrow$ $Q \rightarrow$ $Q \rightarrow$

console.log('Done!')

b)

return \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow

② Nodules!

export var no = 50;

import {fermentation} from ('a')

and \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow

nodejs abi:

↳ \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow

= composite form, seen "module"

↳ \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow
file name where
we configured.

↳ \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow

↳ \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow



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Date ES-6 Features

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- ① Last & const :-
let $a = 10$; // console.log(a) = 10.
const PI = 3.142; // console.log(PI) = 3.142.
- ② Arrow Function:-
let sum = (a + b) => a + b; // Hello
console.log(sum(10, 20)) // 30. 10000000000000002
- ③ Multi-line String:- (back-tick, \)
let greeting = `Hello World,
Greeting to all!`;
- ④ Template Literals:-
String templates along with placeholders
for the variables
= let name = 'My name is \$dynamically'
- ⑤ Destructuring:-
Destructuring assignment an expression that
makes it easy to extract values from arrays,
objects.
 - ① Array Destructuring:-
let fruits = ["Apple", "Banana"];
let [a, b] = fruits;
console.log(a, b) // Apple, Banana.
 - ② Object
let person = {name: 'Mickey', age: 20};
let {name, age} = person;

Date 11/11/2023 Read:

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React Lifecycle Methods

- * The three phases are:
 1. Mounting
 2. Updating
 3. Unmounting
- * Mutation:
 - * Putting the elements into the DOM.
 - * Whenever that component is reassigned into the DOM.
- * When component is rendering following methods will be called in order.
 - i) constructor
 - ii) getDerivedStateFromProps → we set new props
 - received. state
 - iii) componentDidMount
- * Updating:
 - * whenever component is updated, there is a change in state or props.
 - * Following methods will be called in order
 - i) componentDidUpdate



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↳ Should Composers Update
↳ send on

↳ photos Before Update
↳ component Did Update

3. Unmentioning of
when ever the assigned composer from
the DON.
= component Will document (the person)

Component
= component kept responsibility
. NOC soft skills

↳ component Will keep responsibility
. NOC soft skills

↳ component Will keep responsibility
. NOC soft skills

↳ component Will keep responsibility
. NOC soft skills

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. NOC soft skills

↳ component Will keep responsibility
. NOC soft skills



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Content - API

Parent \rightarrow If we send data from parent consent to child C.

Child A \rightarrow Parent approach to content A PD.

Child B \rightarrow Child B consent

Child C \rightarrow Child C consent

* prop desiging: Moving prop from grandparent to child.

* Content - API features are added in version 16.3 of React.

* React.createContext() \rightarrow It returns a consumer by a provider.

Provider:

\rightarrow Is a component.

\rightarrow Provides the state to its children.

* It will hold the "store" to be the parent of all components that might need to store

* consent:

It's a component that consumes to use the store.



Date 11/11

Mo Tu We Th Fr Sa Su

Peace Hoolas'

* Basically Hoolas are using for Peace
Fernando compostend.

* Hoolas will work only higher than
16.8 versions of React.

* Hoolas can used for delivering React
classes like cycle on ethod's as a Peacelit
local component.

To for React App C

React Component

Lhs Hello Fernando compostend Lhs

useState():

Get the word for better see in a
function for component

compose React, {useState for "react"

function App() {

const [name, setName] = useState("React");
return <h1>Hello, {name}</h1>



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Q. What effect(s):

- * Get user's contact as compound document, ~~Deserialize~~ and ~~serialize~~.
- * Business layer using from API - can be foundational component.

useEffect () =>

a
b, []
get any → function
and any → dependency
[] → call only once.

[found] → call only when
state is changed.

→ call every render.



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卷之三

Redux:

* Reduces ~~the~~ a period of time to store containers
from January 1st to April 1st.

- * Reduces the chance of an application being rejected
 - * Reduces the cost of managing the application well.
 - * Reduces the cost of managing the application well.
 - * Reduces the cost of managing the application well.
 - * Reduces the cost of managing the application well.
 - * Reduces the cost of managing the application well.

Date: 11/11/2023

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Reducing Steps:

1. Download Reducer toolkit & Request Reducer from Sonali @meduxjs / Toolkit repository.
2. Create Reducer Structure.
3. Provide Reducer Structure to reducer.
4. Create a Reducer Structure Slice.
5. Add Slice Reducer to the Store.
6. Use Request State of each Tools from Reducer Application.



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Date Procedure

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2. open `constall` procedure; it should read - me - due.

2. create storage file. \Rightarrow storage.js
compose of configuration stored person "one's tools".

export const storage = configOneStorage

(Q) \Rightarrow storage: 1. {
2. }

3. Go to "order.js" file.
compose of providing person "apple_order".
compose storage person "storage.js";
then wrap with provide with own App component (parent comp).
 \hookrightarrow Person's order storage = storage \hookrightarrow storage \hookrightarrow APP \hookrightarrow provider

4. Create \rightarrow order hidden \rightarrow features \rightarrow common func.
= compact predefine slice { person "one's tools".

const & constructorstate = ?

Date: 6 | column: 0

exponent const counterSlice = createSlice(
name: "Counter",
initialState =

reducers:

②

increments: (stage, action) => {
const & + 1},
decrements: (stage, action) => {
& - 1},

exponent const & increments, decrements:
counterSlice. actions
exponent default counterSlice.reducer

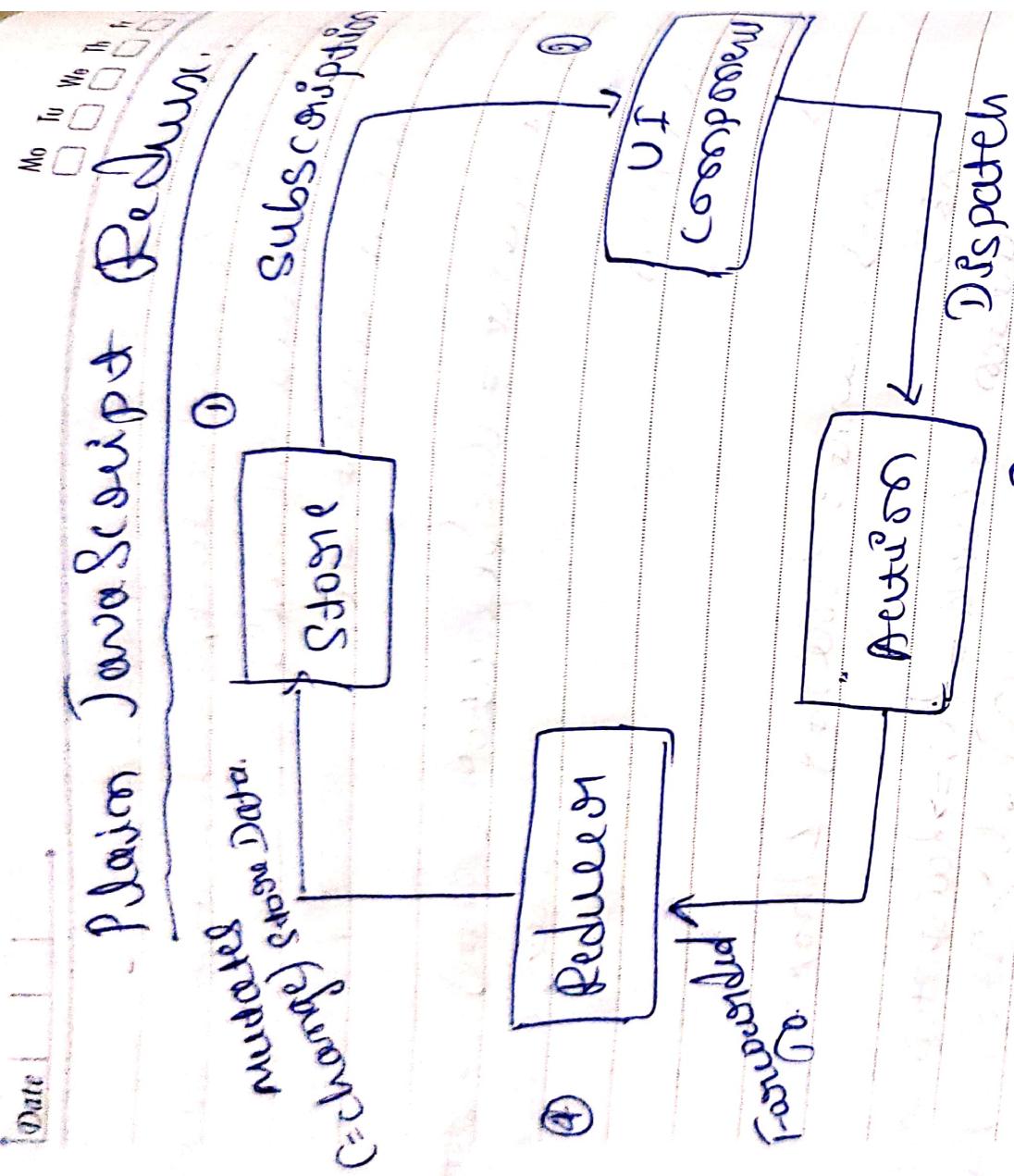
5. Ex to Store like and Counter's
reducers:
= proposed CounterReducer from 'proposed'
CounterSlice;
reducers:

constructor: counterReducer



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Date: 11/11/2023



1. Create storage = `{}
let storage = {}`
2. const handle = sequence('render');
3. const state = `createStore(handle)` = `state = handle()`
4. const counterReducer = `(state, action) => {
 switch(action.type){
 case 'increment':
 return state + 1;
 case 'decrement':
 return state - 1;
 default:
 return state;
 }
}`
5. `const [count, dispatch] = counterReducer();`
6. `const [count, dispatch] = counterReducer();`

Mo Tu We Th Fr Sa Su

= const stone = sandar. coarseStone (constantRe-
-sponse);

= const coarseGrainSize = 0.5 = 0.5 mm;
const largestState = stone. getStage();

b.

stone. subdivide (coarseGrainSize);

if (A < 0.5)

else if (A > 0.5)

stone. dispatch (stage: 'concurrence');

(dispatch:石を粗い粒に分割する) 2回
粗い粒を更に細くする

粗い粒を更に細くする
粗い粒を更に細くする

粗い粒を更に細くする
粗い粒を更に細くする

粗い粒を更に細くする
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粗い粒を更に細くする
粗い粒を更に細くする

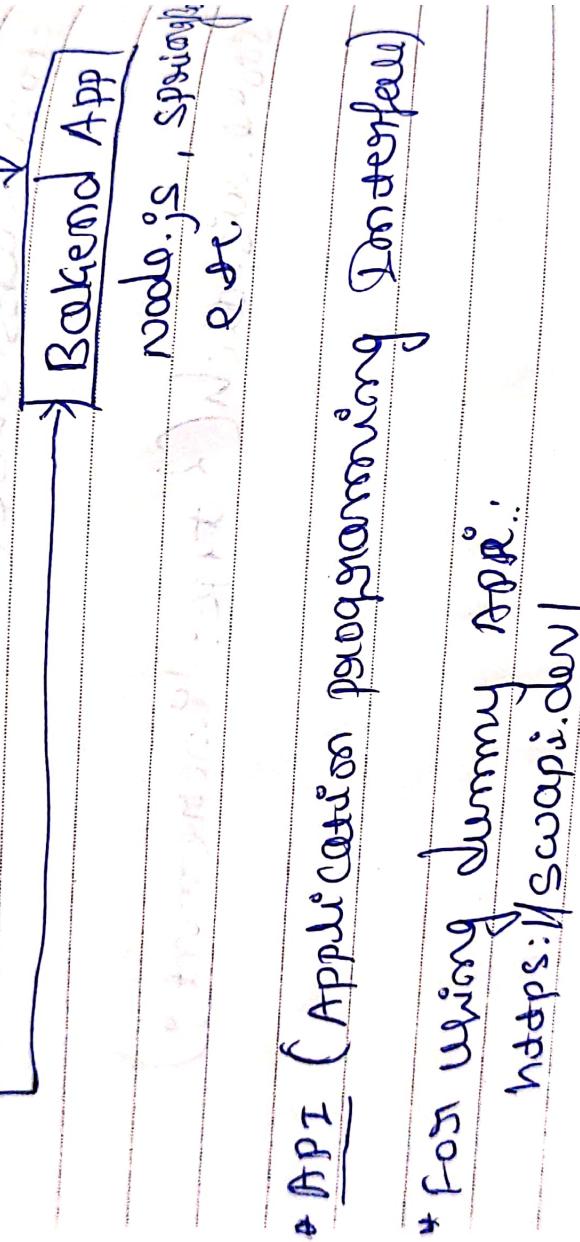
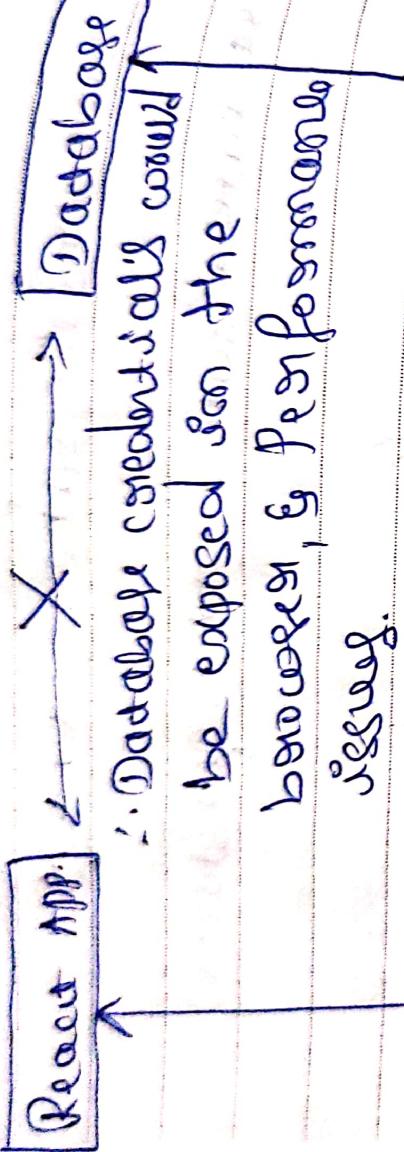


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Tai Anjamuga

Date 01/01/2023

How to connect database with React



- * API (Application programming Interface)
 - * For using dummy API:
<https://swapi.dev/>
- * For API call. Using fetch method and Async & await.
 - func = `async () =>`
 - cont `await fetch('')`
 - const `newData = await func.json();`
 - consider GET method.

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Date: 10/10/2023
without Assume & await, Writing for
promise.

```
func = () =>
  fetch("url") // default use
  then (response =>
    response.text() // default use
    .then(data =>
      console.log(data) // default use
    )
  );
}

// Output: undefined
```



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Post method:

async function postData(url, data) {

const request = await fetch(`\${url}`, {
 method: 'POST',
 body: JSON.stringify(data),
 headers: {
 'Content-Type': 'application/json'
 }
}).then(response => response.json());

const finalResponse = await convertResponseJSON(
 console.log(`final Response`));
'. we will get sent data as finalResponse
object.'



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Deployment Steps

09/01/2023

Mo Tu We Th Fr Sa Su

After developing code from your local system into production system.

Steps:

- ① Test code: Test the code for different user scenarios.

② Optimize code:

Lazy Loading,

- ③ Build APP, for Production: Based on scenario create a bundle for production code.

④ upload production code to Server

⑤ Configure segments: Map the segments to different routes.

⑥ ⑦ Lazy Loading:

- * This improves a app performance, using React Router. { Segments }
 - import React, { lazy } => import ('lazy');

Lazy loading is a technique used to improve the performance of a web application by only loading the parts of the page that are currently visible to the user. It involves using dynamic imports or lazy loading to load components only when they are needed, rather than loading them all at once when the page first loads.



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function App()

structure (

 Ldivs

Lsuspend fallback = Lhis loading

LHomepage

LSuspenses

Ldivs

)if

∴ const Homepage = React.lazy(() => import(`./`))

* Lazy Loading is almost using for routes.

* Reason of suspending calling pages will be stopped.

+ If we use React.lazy() it will load only the one only. (bouncing pop)



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③ Build App from Production code.

- * Upon new build, we will get a build folder.
- * In Dockerfile, we will add command to copy build folder.

* To download CSS, JS from operating code.

④ Upload Production Code to Server:

We have to choose a cloud platform for deployment of our code & to produce server like AWS Lambda, Google Cloud Functions, Firebase console. (Free).

⑤ Configure Server.

In above deployment, we have to do some configuration.



Testing, Reuse & Apps

Date 03/01/2023

* Manual Testing:

- i) write code & permission of Test & Jan Bruegel
- ii) very good:
You see what your user will see.



- Everyone - person :- It's hard to test all combinations & scenarios.

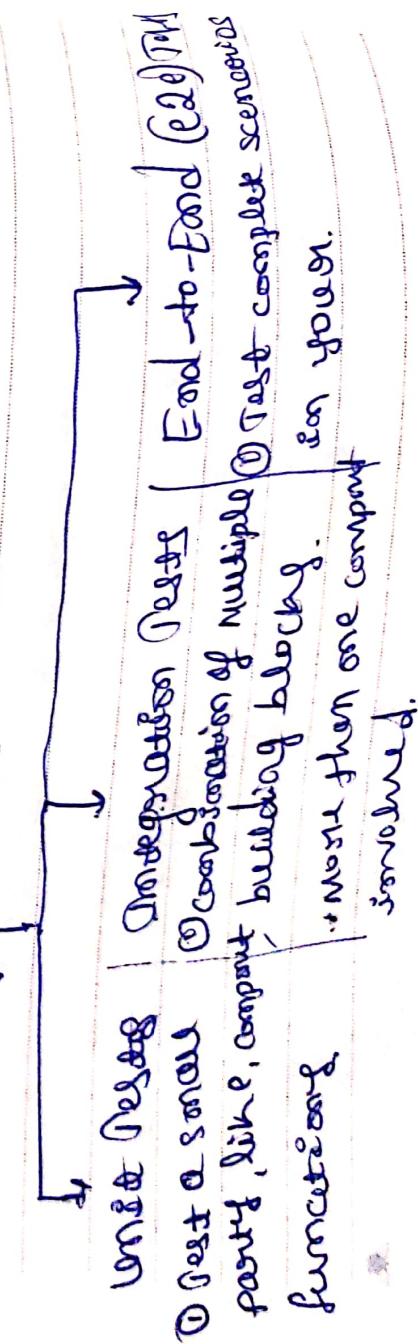


- * Automated, Testing:-
i) need to write code that teste your code
ii) You test the individual building blocks of your app.



- Very technical, but allows you to test all building blocks of one application.

⇒ Testing Types:



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* More than one component involved.

functionality

- ① Unit Testing :-
i) combination of modules
ii) one component building block i.e. function.
- ② Integration Testing :-
i) combination of modules
ii) more than one component involved.

- ③ System Testing :-
i) combination of modules
ii) more than one component involved.

- ④ User Acceptance Testing :-
i) combination of modules
ii) more than one component involved.

- ⑤ Performance Testing :-
i) combination of modules
ii) more than one component involved.

- ⑥ Non-functional Testing :-
i) combination of modules
ii) more than one component involved.

- ⑦ Deployment Testing :-
i) combination of modules
ii) more than one component involved.

- ⑧ Combinational Testing :-
i) combination of modules
ii) more than one component involved.

- ⑨ Building Block Testing :-
i) combination of modules
ii) more than one component involved.

Mo Tu We Th Fr Sa Su

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* For Practice Testing - Doubts by Librarian.

Goal: Test

Library: Reader Library

Author (Unit Test)

Implementation of Test

```
test C:
    // ...
    () => {
        // ...
        @Order(APP1);
        // ...
        assertEquals("Present now", screen.getByText("1 room free/1"));
        assertEquals(ElementType.SCREEN, screen.getByText("1 room free/1"));
        assertEquals(ElementType.TEXT, screen.getByText("1 room free/1"));
        assertEquals(ElementType.TEXT, screen.getByText("1 room free/1"));
    }
}
```

→ import of webdriver, scannerly person (@testing-library/react);
import { render } from '@testing-library/react';

: import Test (Running test)

- => Writing Tests : The Three "A's"
- => Arrange => Set up the test data, test conditions, and test environment.

⇒ Act => Run logic that should be tested.
Click, execute function & so on.

⇒ Assess => Compare outcome on screen with expected result.

Date 05/01/2023

- * Echo System of React: Released to the
- in Gatsby.js
- in Preact
- iii) React Native Building for Mobile App.

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Authentication, cookies vs. Read & Apps:

05/01/2023

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- * Authentication & session are needed if "coincident should be prolonged". (most accessible by keeping one).

- * when coexisting with "Authentication tokens", these tokens are typically generated soon, the "JSON Web Token" Format (JWT).

* Tokens:-

- ↳ Tokens are just long strings which are constructed by an algorithm that encodes data into a string (with help of private key, we can decode it with help of public key).



React Hooks

Date 09/01/2023

- * React Hooles are similar to useState & useEffect
- * use useState provides state, conditioning & actions.

① useState:

- * The useState can be declared, destructuring, stringing, deleting etc.
- * The code based component create always wrong and object.
- = imporat useState, useState of person "needs":
- = const [domino, setDomino] = useState(0) .
- = initially updated state.

Ex: @const [count, setCount] = useState(0) .
= if title: 1, count: 1, document: 1 .

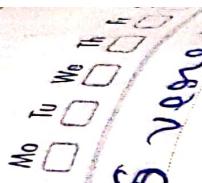
return

Count: {count}

Labels Title / Values
Count type = "text" value = inputstate. current. value;
setInputstate (newValue) => (r

onchange = handleChange event =>
 & const title = event. target. value;
 & setInputstate (newValue => (r

5 7 4) 1 - 15



Mo Tu We Th Fr Sa Su

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multiple useState

Ex ② const [state, setState] = useState(1);
const [amount, setAmount] = useState(1);

return

(
 // Formatted price of total labels
 // Labels Total Labels
 // Input type="text" value={state}
 // onChange={event => {
 // use setState(label, event.target.value)
 // }
 // }
 //)
 //
 // Labels > Amount & Label
 // Input type="number" value={amount}
 // onChange={event => {
 // use setState(amount, event.target.value)
 // }
 // }
)

2) useState (current, suggest, value):

Labels >

OTP

Type

in

Amount
in

Submit



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- * Request Holders will dialogue on stop after creating the forecast less.

- * If you want to send data for own comp to other comp.
Demo.js

L Demosoup dates = "new Date(2011

Component property for execution set
name date of
configuration (foreground)

* DemoLamp.js

cont. header or curser = () =
page. date (J. title: 'Body', argument: go);
});

return C.LP which = handlewhich();

Mo Tu We Th Fr Sa Su
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useEffect

- This is a side effect.
- This equivalent do \rightarrow componentDidMount(), componentDidUpdate(), componentWillUnmount().

- If we need to call API (bookend-API), use Effect to do so.

- It runs the function after every component render / update (see - screenshot).

Screenshot:

useEffect(() =>

)

, []).

→ This runs the code once and same (componentDidMount())

, [name] → It runs every time (componentDidUpdate())

→ This runs every time when name is changed.



- (16) How are we structuring HTML & CSS? Explain Redux flow from global component diff b/w Flux & Redux? which middleware, Are using of exp what is React Fiber & Context & Diff b/w controlled exp (uncontrolled component) onchange (React) (Dom) → synthetic event. → propagation of parent Data (17) what is the diff b/w ESS & ES6 syntax while creating the code? (18) Now as we are configuring web palette file?
- HTML & CSS
- (1) What are the blocks level tag in HTML? \rightarrow `H1-H2, PR, LI, DIV, HN`
 - (2) How you will make your web pages as responsive? can we use the mobile media query which are the semantic elements? & also Semantic elements for HTML \rightarrow form, table, & list items \rightarrow div & spans
 - (3) Can you explain me position property in CSS what is default position? (4) diff b/w query selector & query selector ALL (5) where is 2 - way binding

1

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Mo Tu We Th Fr Sa Su

Recent Top 10 Questions

Tell me about yourself.

- ① what is generation from category? Exp with ex:
- ② diff b/w copy & applying to file TS
- ③ what is Higher Order component in React?
- ④ what is deep b/w shallow copy & deep copy?

- ⑤ what is use of closure? And how you used it during your application.
- ⑥ diff b/w slice & spread operator
- ⑦ what is the use of symbol data type?
- ⑧ what is use of All with this function?
- ⑨ diff: b/w Rest & ... Spread operators

- ⑩ what is diff b/w version by use callback? Explain with great example!
- ⑪ Do you worked on Redux? which version are you using?
- ⑫ How to composite component will implement in functional component?
- ⑬ Are you working on Technology Library?
About Person Test Lib.
- ⑭ what is the use of PeerReview by yourself.
- ⑮ what is the use of JWT Token?



Date 12/01/2022

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React, Custom Hooks.

- * Only call React Hooks from React Function's component.

- 1) React Component Functions
- 2) Custom Hooks

- * Doing cool React Hooks at the top level.
 - ↳ Don't call them from nested functions.
 - ↳ Don't call them from any block statements.

Custom Hooks:

- * Dangerous ~~useful~~ logic gets ~~reused~~ across multiple functions.
- * By end it's a re-usable function.

- 1) Creating custom Hooks steps:-
 - 1) Create of Hook's name start with "use"
 - 2) Backend
 $\text{useCounter} = () \Rightarrow$
 $\text{key const useCounter}$
 $\text{d} \rightarrow \text{function code}$
- 2) Use as a just function

- * Use as a just function
- * Don't use any generator and return body.



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Pecten Porops Valdés

`App(component).prototype = { name }`

• composed of prototypes from previous 'proto-typing'.

Ex: APP, prototype =

Age: Prototype. number. **Age:** Prototype. number.

14

App. default properties =
measure : 'velocity'
ceg : 10



Date 01/03/2023 CSS

Mo Tu We Th Fr Sa Su
0

* CSS → Cascading Style Sheets

- 3 types styling we can do
 - i) Inline style.
 - ii) Internal style.
 - iii) External style.

- CSS Selections:
we can divide CSS Selections into 5 categories:
 - i) Simple Selections:
(Select elements based on name, id, class)

- ii) Combination Selections:
(Select elements based on a specific relationship between them).

- iii) Pseudo-class Selections:
Select elements based on a certain state.

- iv) Pseudo-element Selections:
Select a part of an element.

- v) Attribute Selections:
(Select elements based on an attribute)
on attribute values (name),



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- * In this example only LP elements will be red and $\text{center} = \text{"center"}$

aligned.

Lhi cuadros = "cuadros de Lhi" — — —

Llibreus

P. c. e. m. - ~~the~~ P. c. e. m. - ~~the~~

stomato-ecclipticus: Combes.

- Home page will be styled according to color = "classic" style
- colors: red;

P. cestiferus - "cestiferus"

1996-1997
1997-1998

- * The CSS Universal and Selector:
- * The Universal selector (*) selects all HTML elements on the page.

卷之三

କାନ୍ତିର ପଦମାଲା

Mo Tu We Th Fr Sa Su

Background color is

is background-color on body background-color : red;

body

background-color : red;

Opacity / Transparency:

- i) Opacity property specifies the opacity!
- * The opacity property of an element,透明度 property of an element.
- * It take a value from 0.0 - 1.0.
- * The lower value is more transparent.

Ex

div

background-color : green;

opacity : 0.3;

f

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No To Wo Th Fr

* display:

- The display property specifies ~~all~~ how an element is displayed.
- The default display value for most elements is block or inline.

* Block-level Element:

- Always starts on a new line e.g forces up the full width available.
say `<div><h1>` - `<h1>`, `<p>`, `<form>`, `<header>`, `<footer>`

* Inline Element:

- Does not start on a new line & only takes up as much width as necessary.
By ``, ``, `<a>`

- more-width & width diff:
Using the browser's window or container's width, to see the difference between two divs



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- Positioning:
The position property specifies the type of positioning method used for an element (absolute, relative, fixed, absolute or static).

position: static;

- HTML elements are positioned static by default.
- This most applied by the top, bottom, left, right properties.

position: relative;

- * Setting the top, right, bottom, left properties of a relatively-positioned element will cause it to be adjusted away from its normal position.

By default: position: static;

Left: 30px;

borders: 3px solid red;

}

position: fixed;

It means element stays in the same place even if the page is scrolled.

By default: fixed;

right: 0;

}



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position: absolute

It uses the document body, e.g. conveys about with page scrolling.

position: absolute

top: 80px;
border: 3px solid red;

position: sticky

This position is based on the window scroll position

position: sticky

position: -webkit-sticky; top: 0;
background-color: green;
border: 3px solid red;



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Higher - Order Functions.

The Higher Order functions that accept functions as parameters and/or returning a function.
Eg, map, reduce, filter, and forEach loop methods.

- Function → function → function → function
- ① function function-name () {
 ↓
 function-name (a, b) {
 ↓
 return a + b;
 }
}

function-name () : // function calling.

- ② passing parameter to some other function →
function sum (a, b) {
 ↓
 return a + b;
}
sum (10, 20);
↓
return 30;

OP



Date: 11/11/2023

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<input type="checkbox"/>						

③ Anonymous Functions:

let res = function (a, b)

```
{    return a * b;
}
```

or

```
res(10, 10) // 100.
```

④ Function Constructors:

```
const myFunction = new Function("a", "b",
    "return a + b");

```

```
let x = myFunction(4, 3);
console.log(x); // 18
```

⑤ Self Invoking Functions:

Ex: A self invoking expression is invoked automatically, without being called.
It will execute automatically if the expression followed by () .

Eg:

```
(function()
{ })()
```

```
console.log("Hello World");
() // Hello World
```



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→

arguments. length: a function that
accepts arguments the no of arguments
passed when the function was invoked
is received.

call: function calling Function(a, b)

2 structures arguments. length: 12.

Diff b/w Call & Apply:
1) call() method places arguments separately.
is we can invoke a method that can be used on diff objects.
2) apply() method takes arguments as array.

= const p1 = 1 firstValue: "Lulay", lastValue: "pujagu" {
const p2 = 2 firstValue: "Appu", lastValue: "pujagu" {

const person = 2

function person(p1, p2) {
return p1 + " " + p2;

↑
↑

Person.fullName = call (p1)
1, " " + call (p2)

= Apply 1:

use person object, and p1 object. only change
return from person object. ↓↓↓↓↓
+ " copy + ", " + concatenating";
↓
Person.fullName. apply (p1, ["Benguet", "Dandicat"]).



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Mo Tu We Th Fr Sa Su

* what is diff b/w Set and Map

Set

i) Set is one dimensional. unidimensional Array.
P.S) Countable:

```
const setObj = new Set(); // create Set object  
setObj.add("a");
```

```
console.log(setObj); // Set(1) { "a" }  
for (let i = 0; i < setObj.length; i++) {  
    console.log(i);  
    setObj.forEach((el) => console.log(`Index ${i} value is ${el}`));  
}  
// result + = a.
```

ii) Countable:
i) Map is 2D and has key-value pair,
where key should be unique. meaning
"ii) Countable"

```
const mapObj = new Map();  
mapObj.set("name", "John");  
mapObj.set("age", 20);  
mapObj.set("city", "New York");  
mapObj.forEach((value, key) => console.log(`Key = ${key} Value = ${value}`));  
// Output : Map(3) { "name" : "John", "age" : 20, "city" : "New York" }
```

Map + = $key + value = map + val$.

g)



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Mo Tu We Th Fr Sa Su

JavaScript, Async, Concurrency

Callbacks

- i. Asynchronous
- ii. Promises
- iii. Async/Await.

1. callbacks
- * go over function passed as argument
 - * A callback goes after function execution.
 - executes to another function to call
 - * This technique allows a function to call another function from another function.
 - * A callback function can return after another function has finished.

Ex:-
function myFunc(parms) {
 console.log("My Function Executed")
}

↳
function myCalc(mul1, mul2, callBack) {
 let sum = mul1 + mul2;
 callBack(sum);
}

↳
myCalc(10, 20, myDisp);
↳
function myDisp(result) {
 console.log(result);
}



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JavaScript Asynchronous, callbacks

1. Asynchronous
2. Promises
3. Async / Await
4. Generators

1. callbacks
go over functions passed as arguments.

* A callback is another function.
- means to allocate a function to call

* This technique allows a function to return from one after another function has finished.
A callback function can return after another function has finished.

Ex:
myFuncion(myDisp)
function myFuncion() {
 console.log("Hello")
}

function myFuncion(mun1, mun2, callBack) {
 console.log(mun1 + mun2);
 callBack();
}

let sum = myFuncion(10, 20, myDisp);
~~myDisp~~ callBack(Sum);
if (sum == 30) {
 console.log("Success");
}

myFuncion(10, 20, myDisp);
if (sum == 30) {
 console.log("Success");
}



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Date: 11/11/2023

- Q. Asynchronous Functions
- * Functions are running in parallel
 - * often functions are called asynchronous
 - * Best example see setInterval(), setTimeout()

Ex:-

SetTimeout (myFunction(), 1000);

Ex:-

myPromise().then(() => console.log("Hi"));

Ex:-

console.log ("Hi")
myPromise().then(() => console.log("Hello"));

Ex:-

myPromise().then(() => console.log("Hello"))
myPromise().then(() => console.log("Hello"));



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No Tu We Th Fr Sa Su

funzione costante (cost)

o costante (cost);

costante (cost) = funzione funzione
costante (costante, maglia) di stabilità

$$x=0^+$$

$\lim_{x \rightarrow 0^+} f(x) = 0$ (f(x) $\rightarrow 0$ per $x \rightarrow 0^+$)

negativo ("0⁻") \rightarrow stabilità assoluta

o stabilità assoluta (stabilità assoluta)



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Date

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<input type="checkbox"/>						

A. Asynch Await:

- * Assume we have a function `getPerson()` that for a personage.
- * Await and add a few options wait for a personage.

```
let personObj = await Promise.all([
    getPerson("Hulk Hogan"),
    getPerson("Hulk Hogan"),
    getPerson("Hulk Hogan")
]).then(persons => {
    console.log(persons);
});
```

```
await personObj[0].display();
await personObj[1].display();
await personObj[2].display();
```



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08/04/2023

Mo Tu We Th Fr Sa Su
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Tanascoop & Boni (Browser Object Model)

- * window object is supported by all browsers.
- * global Tanascoop objects, functions, and variables are created and called as properties of the window object.
- * Global variables are properties of the window object.
- * Global functions are methods of the window object.

* Even the document object (HTML DOM) is a property of the window object.

document.createElementByID("header"); // creates a header element

by equating it to.

window.document.createElement("header").
tag (method).

1. window. screen. height;
2. " " . open() → open a new window.
3. " " . close() → close the current window.
4. " " . scroll() → move the current window.
5. " " . scrollTo() → move the current window.



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Date

2. Java Script Window Scenarios

- * window. screen. object containing information about the user screen.
- * properties:
 - 1) window.screen.
 - 2) screen.availHeight:
 - 3) " : width;
 - 4) " : height;

Mo	Tu	We	Th	Fr	Sa	Su

- a. Java Script Window Locations:
- * The window.location object can be used to get the current page address(CURR) and to change the browser to a new page.

- b. Java Script Window Post:
- * hostName → domain name
 - 1) window. " . " . post → structure post to e.g. file name of current page.
 - 2) " . " . " . post → structure post to e.g. file name of current page.
 - 3) " . " . " . post → structure post to e.g. file name of current page.
 - 4) " . " . " . post → structure post to e.g. file name of current page.



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Scoring a
missed approach

Windows: history of design centered the windows. history of design. windows → some clicking windows. history of design. windows → same change as forward and back buttons.

A Janas script cooled in

- Cookies left for you on a web page.
 - cookies are small text files stored on your computer.
 - cookies are used to store user information - value persn.

Weskerne = Luxus Projekte

↳ concrete cookie = "Lustiges Pinguin":
= documentant cookie

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but x = document.getElementById("content");

document.cookie = "username = " + id;

Date _____

JSON (JavaScript Object Notation)

- * JSON is a ~~descriptive~~ format for storing and ~~transmitting~~ data.
 - * JSON stores "values" like strings, numbers, booleans, arrays, objects, and null.
 - * JSON stores objects as key-value pairs, where the key is a string and the value can be any type of JSON value.
 - * JSON parsing (JSON to object) is a common operation in many programming languages.
 - * JSON converting (object to JSON) is also a common operation.

JSON: [View](#)

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27 enero 1999

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JSON values cannot be one of the following
data types:
1) fincetion
2) object.

use

1) `function`, `Object`, `String`, `Boolean`,

`Number`, `Date`

`Symbol`, `RegExp`, `Object`

`Boolean`, `String`, `Number`

`Object`, `Function`



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Date: 20/04/2023

1. Default Rest & Spread Operator.
- Rest operator.
- pair environment.
- Spreading elements.
- unbacked elements.
 - shallow copy.

Spread!

Ex: `const arrA = [1, 2, 3];
console.log(...arrA);` // 1, 2, 3.

Ex: `const arrA = [1, 2, 3];
const arrB = [...arrA];
console.log(arrB);` // 1, 2, 3.
If we do changes to either of the arr
they will not affect the other.

Rest:

function sum(...args)
& rest args = 0;
for(let arg of args)
& sum+=arg;

{
sum(10, 20, 30, 40);



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Date 24/04/2023

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1. JavaScript Prototype:

- * JavaScript, every function object has a prototype named prototype by default.

Ex: function Person()

 this.name = "Lucky";
 this.age = 25;

```
const p1 = new Person();
```

```
console.log(Person.prototype); // { }
```

- * This Prototype has no value at the moment.

- * A prototype can be used to add properties e.g methods to a constructor function too.

Syntax:

object constructor.prototype.propertyName = 'value';
name

Note:

↳ Add property to a constructor function.
↳ Methods to a " " using prototype.

```
function Person()
```

 this.name = "Lucky";
 this.age = 26;

```
const obj1 = new Person(); // Person{name:'Lucky', age:26}  
Person.prototype.salary = 20000; // 20000  
console.log(obj1.salary) // 20000  
Person.prototype.address = function () { my name is Luffy,  
    console.log(`my name is ${this.name}`); }  
obj1.salary // 20000
```



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2. Default Parameter values
function sum ($x, y = 5$)
 $\cos(2x), \log(x+y)$: // q

Since (5) : $\{x=5, y=5\} = \text{No}$
Since $(5, 15)$: $\{x=5, y=15\} = \text{No}$
So don't pull the percentage for
set will stable by default of S .