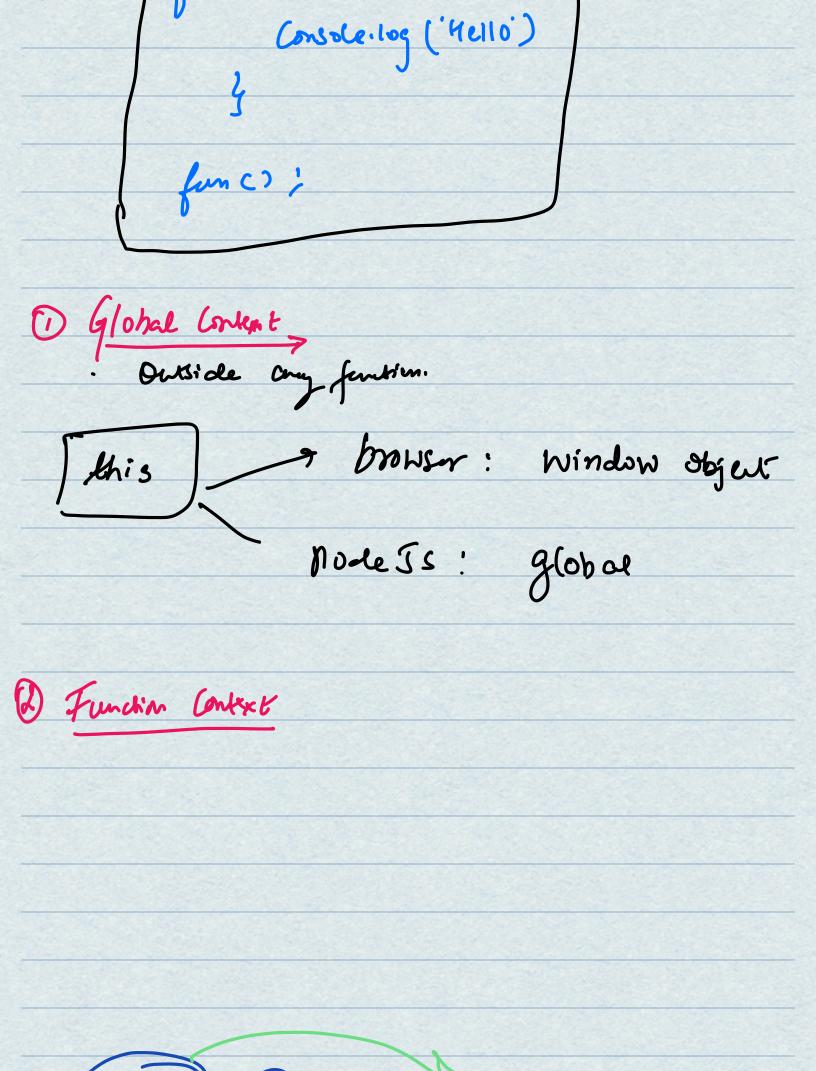
26. 00Ps: 'this' & Arrow functions
Agenda
bruser
- This Keyword node IS
amon functions
Oops
It this:
this: Object Oriented
Programming.
(Special reserved keymons in Js)
Represents Current execution execution or current
Elyresents Current execution execution or current Object
st Context)??
(58) + Junction fun () {



(50PS) +(Js) Lelpi to organize g Strutme Cole (1) Encapsulation (2) Abstraction vell in lage (b) (Poly morphism Code balls. 9 Inheritance

3 Overloading. Phis? # Encapsuedin: at Alestration Hiring Complex Toforom akin Implementation

Autails Jasy Ren:

Exposing recessary details to the en cop (19 (methods Variables Class (funcion)

Alskroutin Encysulin · Hair unwanted sys. · Brudling data to getter.

· I see a souther · Mide method folder a in a single entry Jesem Conkert (this) for ()

Learn Different Ways to Invoke a fencial Hondisusud in conf Deguar fontion

Method invocation Call () & apply
Arrow functions methods 2d (Etz) | Non strict Stoles 1) Regular invocation global Object Undefined 2) Meroa this refer to Object that the

method if Called on. 'thic' refers to instance being created by Constants
function. 3) Constructor
invocation 4) coer & apply Explicitly det 'this' voluc 5) Assow ·Arrow for don't have I their own 'this' volume · Retain volve of · enclosing lexical context.

Sernario Code & Node Strict Mode.

```
JS this-node-env-strict-mode.js ×
aug-awesome-batch > fullstack-lld-august > 25 - oops 1 this > JS this-node-env-strict-mode.js > \dots
       'use strict'
       console.log('Scenario 1: ')
       console.log(this); // Output : {}
       console.log('Scenario 2:');
       function fnGlobal() {
           console.log(this); // undefined
       fnGlobal();
```

```
console.log('Scenario 3:')
    prop: 'Property',
fn: function () {
        console.log(this); // object itself - { fn: [Function: fn] }
        console.log(this.prop); // Property
obj.fn();
console.log('Scenario 4 :')
var obj2 = {
        console.log(this); // object itself - { fn: [Function: fn] }
        var nestedFn = function () {
            console.log(this); // undefined
        nestedFn()
obj2.fn();
```

At Node non strict Mode

```
aug-awesome-batch > fullstack-lld-august > 25 - oops 1 this > J5 this-node-env.js > 🕤 fnGlobal
       console.log('Scenario 1: ')
       console.log(this); // Output : {}
       // Explantaion -- in global context, this refers to empty object
       // Scenario 2
       console.log('Scenario 2:');
        function fnGlobal() {
  12
            console.log(this); // global object
       fnGlobal();
       // exaplnation - inside a regular function, this refers to global object
       // Scenario 3
       console.log('Scenario 3:')
       var obj = {
                console.log(this); // object itself - { fn: [Function: fn] }
                                                  🔍 Ln 12, Col 23 Spaces: 4 UTF-8 LF {} JavaScript 🖗 Go Live 🐯 🗘
main* ↔ ⊗ 0 <u>Λ</u> 0 <u>№</u> 0
```

```
JS this-node-env-strict-mode.js ● JS this-browser-strict.js X
                                                                                                                      □ …
aug-awesome-batch > fullstack-lld-august > 25 - oops 1 this > JS this-browser-strict.js > ...
       console.log('Scenario 1: ')
       console.log(this)
       console.log('Scenario 2: ')
       function fnGlobal() {
           console.log(this);
       fnGlobal();
       console.log('Scenario 3: ')
       var obj = {
           prop: 'Some property',
               console.log(this);
               console.log(this.prop);
       obj.fn()
       console.log('Scenario 4: ')
       var obj2 = {
           prop2: 'Some property2',
               console.log('this outside', this);
               var nestedFn = function () {
                   console.log('this in nested fn', this);
                   console.log('prop value in nested function:', this.prop2);
               nestedFn()
       obj2.fn();
```

IL PANECE Non Ctrick Mode.

```
> // scenario 3
var obj = {
   prop: 'Some property',
   fn: function () {
        console.log(this);
        console.log(this.prop);
   }
}
obj.fn()

> {prop: 'Some property', fn: f}

Some property

VM663:5
```

```
>// scenario 4
 var obj2 = {
     prop2: 'Some property2',
      fn: function () {
          console.log('this outside', this);
          var nestedFn = function () {
              console.log('this in nested fn', this);
              console.log('prop value in nested function:',
 this.prop2);
         nestedFn()
      }
 obj2.fn();
                                                                VM688:5
 this outside ▶ {prop2: 'Some property2', fn: f}
 this in nested fn
                                                                VM688:7
  Window {0: global, 1: Window, 2: global, window: Window, self: Win
    dow, document: document, name: '', location: Location, ...}
 prop value in nested function: undefined
                                                                VM688:8
```