CHALLENGEs are OPTIONAL

00. Create directory panda/your\_name/hw/hw-2024-06-16

00. Create directory panda/your\_name/projects/<your-nodejs-mysql>

00. Create directory panda/your\_name/projects/09-calculator etc.

0. Projects

00-portfolio - get some ideas, what do you want

00-tic-tac-toe - 30.04.2024

01-is-it-a-prime-number - 30.04.2024

02-css-explanator - 30.04.2024

03-questionnaire - 8.05.2024

04-binary-guessing - 16.05.2024 - small groups

05-string-games - "fix the clock","random quote",

"palindrome", "gematria", "anagrams" parts

and the last part - "words-in-word" - finish the project - 26.06.2024

06-nim - 23.05.2024 - small groups

07-hangman - 5.06.2024 - small groups

with both "mouse click" and "keyboard" events,

with minimum of the listeners - using

event propagation

08-NodeJS-SQL-Your-Theme - continue with your theme

in accordance to the cookbook02.

See exercises 1. and 2. below.

19.06.2024

09-calculator - 16.06.2024 - build it with css GRID,

use both "mouse click" and "keyboard" events,

with minimum of the listeners - using

event propagation.

It should perform the actions: +,-,\*,/,%,power,

root, factorial, translating number from binary

to decimal, from decimal to binary, from hexadecimal

to decimal, from decimal to hexadecimal.

Optionally: translating numbers from decimal to

roman and from roman to decimal.

Optionally - more functions.

This project will be evaluated for the themes of:

"algorithms and advanced DOM".

Optional Projects:

- Canvas "Breakout Game"

- "Endless Dangers" - see the description below

- "Dreidel"

- "Memory Game" - see the beginning files and

the example of how to flip card inside

the "projects/optional/memory-game" dir

- "Math Practice" - Optional project of math-practice

with drops containing math exercises and

going down.

When the player types right answer,

the drop should stop or disappear or

make some other response.

- "One page site with smooth scrolling" - like YummyIsrael

1. In parallel with our project Yummy

finish your own project

08-NodeJS-SQL-Your-Theme -

deploy it to the hosting.

Use Cookbook002 last steps.

This project is getting evaluated for the theme of

"Basic NodeJS Express MVC CRUD API"

2. Finish the project STRING GAMES - code the last

part of it: "words in word" game - see

the explanation in the "projects" dir.

3. Callbacks and asynchronous.

To run in a browser.

Order a Book

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i) Create an asynchronous function orderBook(author,bookName,callback) that

gets author name, bookname and callback as parameters.

It should show:

"Thanks, we've got your order of <book name> by <author name>"

After that it should run setTimeout() for 1000 msec and show

after that:

"We're starting to prepare your order ..."

After that it should run another setTimeout for 2000msec and

inside it's callback create the message:

let msg=`The order of ${bookName} by ${author} is ready`

and also inside run the callback that the function orderBook() got,

with an argument of the message (callback(msg)).

ii) Create 2 functions that can be used as callbacks for orderBook()

function.

1st. showInConsole(message) - shows the message in the console

2nd. showAlert(message) - shows the message with alert()

iii) Run orderBook() twice - first time pass it

showInConsole as a third argument,

and for the second time pass it showAlert as a third argument

4. Create recursive function sumFrom1TillN(n)

it should find sum 1 + 2 + 3 ... + n