Act1

Jose Alba Arrufat

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Tipos de datos

Advertencia, ejecuto esto desde visual studio code con la extensión de live preview para emular un entorno servidor, alomejor alguna de las cosas que hago te falla a ti por eso.

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Names</title>
</head>
<body>

<ul id="cloop"></ul>
<p id="thirdMessage"></p>

<script src="names.js"></script>
</body>
</html>
```

JS:

```
const names = ["Hola mundo", "Jose Alba Arrufat", "Mr Babu"];

let loop = "";
for (let i = 0; i <= 1; i++) {
loop += " <li>" + names[i] + "</li>";
}

document.getElementById("cloop").innerHTML = loop;


let showThird = "";
alert(names[2]);
document.getElementById("thirdMessage").innerHTML;
```

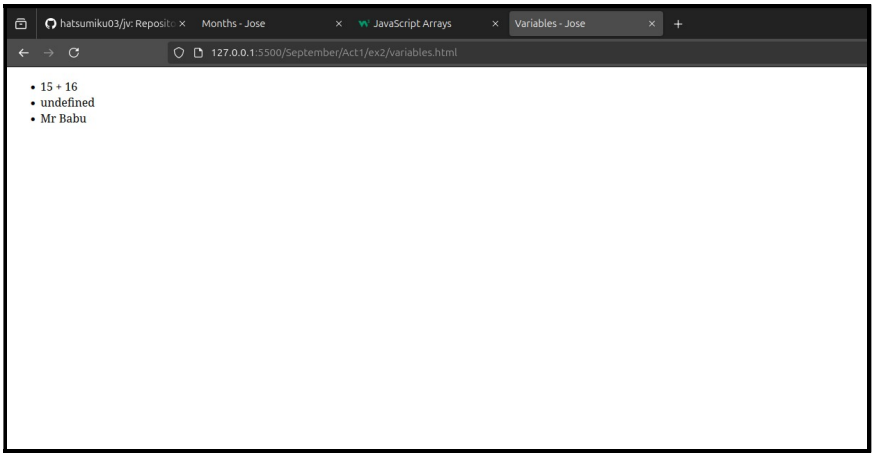
Operadores básicos

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Variables - Jose</title>
</head>
<body>

        <ul id="cloop"></ul>

<script src="variables.js"></script>

</body>
</html>
```

JavaScript:

```
let number1 = 15;
let number2 = 16;
let total = number1 + number2;

const numbers = [number1 +' '+'+'+' '+number2, , "Mr Babu"];

let loop = "";
for (let i = 0; i < numbers.length; i++) {
loop += " <li>" + numbers[i] + "</li>";
}

document.getElementById("cloop").innerHTML = loop;
```



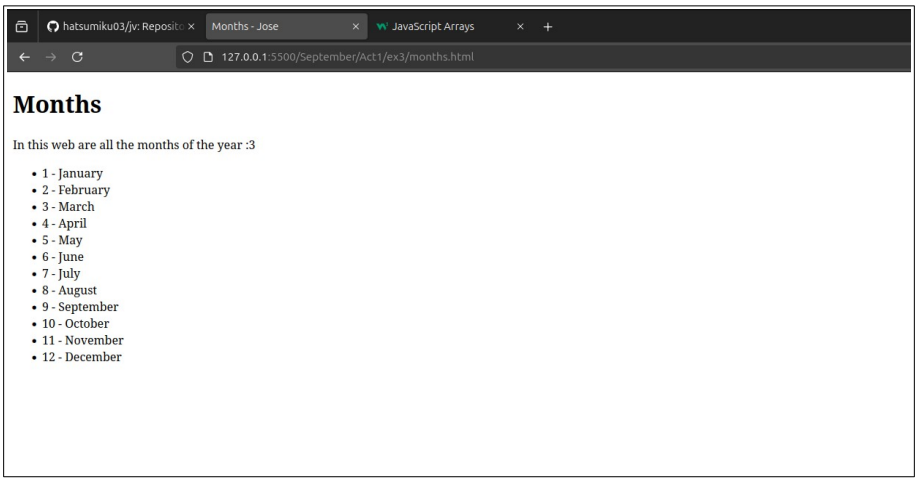
Array de meses del año

HTML:

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Months - Jose</title>
</head>
<body>
<h1>Months</h1>
<p>In this web are all the months of the year :3</p>
<ul id="cloop"></ul>


<script src="months.js"></script>
</body>
</html>
```

JavaScript:

```javascript
const months = ["1 - January", "2 - February", '3 - March', '4 - April', '5 - May', '6 - June', '7 - July', '8 - August', '9 - September', '10 - October', '11 - November', '12 - December'];

let loop = "";

for (let i = 0; i < months.length; i++) {
loop += " <li>" + months[i] + "</li>";
}

document.getElementById("cloop").innerHTML = loop;
```



Práctica

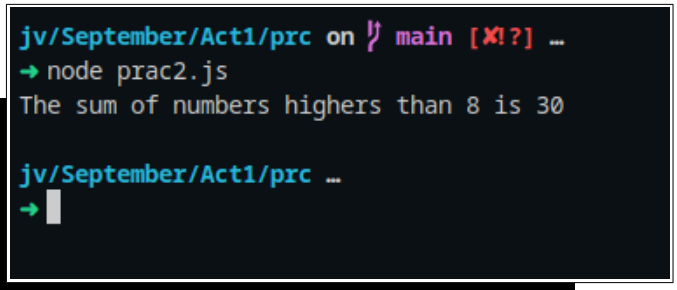
IMPORTANTE: En esta sección adjuntare capturas de pantalla del resultado de lo que sale en la terminal.

1. Decir 5 números y sumarlos

```
let allNumbers = [];
let n = 0;

const reameplease = require('readline').createInterface({
input: process.stdin,
output: process.stdout
});

console.log('YOU WILL WRITE 5 NUMBERS AND YOU GET THE SUM OF ALL FIVE');

function askForNumber() {
if (n < 5) {
reameplease.question('Put a number\n', (input) => {
let number = parseFloat(input);
if (!isNaN(number)) {
n += 1;
allNumbers.push(number);
} else {
console.log('THAT\'S NOT A NUMBER, PUT A NUMBER PLEASE');
}
askForNumber();
});
} else {
// Sum
let sum = 0;
for (let i = 0; i < allNumbers.length; i++) {
if (allNumbers[i] > 100) {
// A part of the exercise
console.log('\n * ' + allNumbers[i] + ' es mayor que 100\n');
}
sum += allNumbers[i];
}
// Sum
console.log('The sum of all numbers you put is:\n', sum);
reameplease.close();
}
}

askForNumber();
```

```
jv/September/Act1/prc on  main [X?] …
➜ node prac1.js
YOU WILL WRITE 5 NUMBERS AND YOU GET THE SUM OF ALL FIVE
Put a number
1
Put a number
2
Put a number
3
Put a number
4
Put a number
5
The sum of all numbers you put is:
 15

jv/September/Act1/prc on  main [X!?] took 4.4s …
➜
```

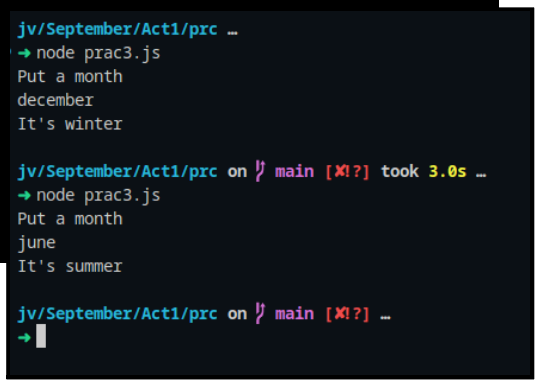
2. Pillar números mayores a 8 de un array y sumarlos




```
const allNumbers = [6,8,3,12,18];
let numbersHigherThanEight = [];
let sum = 0;

for(let i = 0; i < allNumbers.length; i++){
if(allNumbers[i] > 8){
numbersHigherThanEight.push(allNumbers[i]);
}
}

for(let i = 0; i < numbersHigherThanEight.length; i++){
sum += numbersHigherThanEight[i];
}


console.log('The sum of numbers highers than 8 is ' + sum);
```

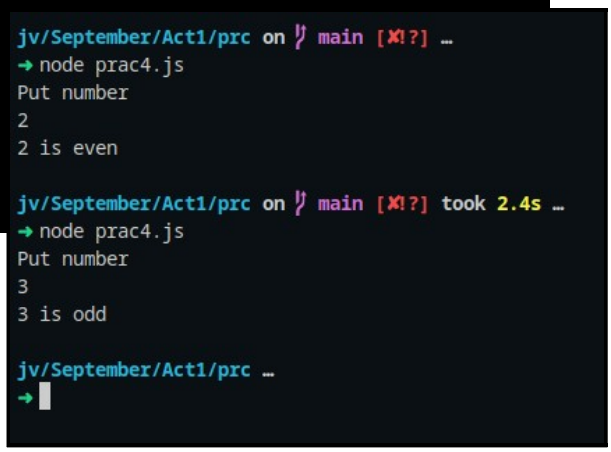
3. Dar un mes del año y decir en que estación se ubica

```
const reameplease = require('readline').createInterface({
input: process.stdin,
output: process.stdout
});

reameplease.question('Put a month\n', (input) => {
let season = (input);

if(season.toLowerCase() == 'november' || season.toLowerCase() == 'december' ||
season.toLowerCase() == 'january' || season.toLowerCase() == 'february'){
console.log('It\'s winter');
}else if (season.toLowerCase() == 'june' || season.toLowerCase() == 'july' ||
season.toLowerCase() == 'august'){
console.log('It\'s summer');
}else if (season.toLowerCase() == 'september' || season.toLowerCase() == 'october'){
console.log('It\'s autumn');
}else if (season.toLowerCase() == 'march' || season.toLowerCase() == 'april' ||
season.toLowerCase() == 'may'){
console.log('It\'s spring');
}else{
console.log('That isn\'t a month');
}
reameplease.close();
});
```



4. Ver si el número es par o impar

```
const reameplease = require('readline').createInterface({
input: process.stdin,
output: process.stdout
});

reameplease.question('Put number\n', (input) => {
let number = (input);
if (number % 2 === 0) {
console.log(`${number} is even`);
} else {
console.log(`${number} is odd`);
}
reameplease.close();
});
```



5. Calcular IVA

```
const reameplease = require('readline').createInterface({
input: process.stdin,
output: process.stdout
});

reameplease.question('Put a price for see the iva extra\n', (input) => {
let number = Number(input);
let iva = number * 0.21;

let totalprice = number + iva;

console.log('individual IVA is ' + iva +'\nThe price with the iva is ' + totalprice);
reameplease.close();
});
```

```
jv/September/Act1/prc on  main [✘!?] …
➜ node prac5.js
Put a price for see the iva extra
41
individual IVA is 8.61
The price with the iva is 49.61
```

6. Ver una cadena en upper case, lowercase y con un método que lo revierta

```
const reameplease = require('readline').createInterface({
input: process.stdin,
output: process.stdout
});

function reverseString(str) {
let arrStr = str.split("");
return arrStr.reverse().join("");
}

reameplease.question('Say me a sentence\n', (input) => {
let sentence = input;

console.log('Sentence: ' + sentence +
'\n\nThe length of the sentence is ' + sentence.length +
'\n\nUpper case: ' + sentence.toUpperCase() +
'\n\nLower case: ' + sentence.toLowerCase() +
'\n\nReverse: ' + reverseString(sentence));
reameplease.close();
});
```

```
jv/September/Act1/prc on  main [✘!?] took 2.1s …
➜ node prac6.js
Say me a sentence
Omnipresent
Sentence: Omnipresent

The length of the sentence is 11

Upper case: OMNIPRESENT

Lower case: omnipresent

Reverse: tneserpinmO
```