Hack your future BE

JAVASCRIPT 2

Javascript is the duct tape of the internet

– CHARLIE CAMPBELL

JAVASCRIPT

WHAT IS IT?

WHAT CAN IT DO?

WHAT DATA TYPES?

DATA TYPES

- Boolean

- NULL

- Undefined

- Number

- String

- Object

- Array

JAVASCRIPT IS A
DYNAMICALLY TYPED LANGUAGE

DATA TYPES ARE CONVERTED

AUTOMATICALLY

UNDERSTANDING JAVASCRIPT

VAR

LET

CONST

- console.log(name);

- var name = 'andreas';

UNDEFINED

REFERENCE ERROR

INCLUDING **CSS**

```
<STYLE>
 BODY { BACKGROUND-COLOR: RED}
</STYLE>
```

```
<LINK REL="STYLESHEET" TYPE="TEXT/CSS" HREF="STYLE.CSS">
```

INCLUDING **JAVASCRIPT**

```html
<SCRIPT>
 CONSOLE.LOG('HELLO WORLD!');
</SCRIPT>
```

```html
<SCRIPT TYPE="TEXT/JAVASCRIPT" SRC="SCRIPT.JS">
```

EXERCISE

OPERATORS

- Let my name = "rob"

- Let calculation1 = 2 + (2 * 6);

- Let calculation2 = (2 + 2) * 6;

- Let calculation3 = (2 + 2) * (4 + 2);

- Let calculation4 = ((2 + 2) * 4) + 2;

- Let calculation1 = "2" + "2";

- Let message1 = "Hello," + "future";

- Let calculation2 = ("33" + 3);

- Const hack = "future";

- Let message2 = "Hi " + hack;

- Is not equal to

- Is greater than

- Is less than or equal to

&& ||

TRUTHY VS FALSY

STATEMENT VS EXPRESSION

LOOPS!

FOR

WHILE

FOR ... OF

FOR ... IN

```
ARRAY.FOREACH((ELEMENT) => {
 CONSOLE.LOG(ELEMENT)
 })
```

SCOPE

```
IF (1 === 1) {
 LET A = 1;
 VAR B = 1;
}
CONSOLE.LOG(A);
CONSOLE.LOG(B);
```

```
FUNCTION MYFUNC() {
 CONST HI = 'HELLO;
 CONSOLE.LOG(HI)';
}

MYFUNC();

CONSOLE.LOG(HI);
```

DEBUGGING

DOM & JAVASCRIPT

HOMEWORK

WRITE A JAVASCRIPT PROGRAM THAT LOGS THE NUMBERS FROM 1 TO 100;

- FOR MULTIPLES OF 3, LOG: "HACK"

- FOR MULTIPLES OF 5, LOG: "FUTURE"

- FOR NUMBERS WHICH ARE MULTIPLES OF BOTH 3 AND 5, LOG: "HACKYOURFUTURE"

- PUSH TO YOUR GIT BRANCH

- SHORTEST CODE WINS!

HOMEWORK EXTRA

- Expand the calculator functions

  - Adding, subtracting, dividing

  - Check which number is largest

  - Check which number is closest to 100

- Validate input

  - If you input text, show **RED** message "please provide numbers"