EXPLAIN

15 MIN

HOMEWORK REVIEW

Tell me all differences you Observed btw PYTHON and JS

EXPLAIN

15 MIN

HOMEWORK REVIEW

CORRECTION / DEMO

Quiz

What the console will display?

```
<script>
    for(let i = 0; i < 3; i++){
        console.log(i);
    }
</script>
```

a. 0123

b. 123

c. 0
1
2

d. I don't know

Quiz

What the console will display?

```
<script>
    let isBlack = true;
    let isWhite = true;
    isBlack = isWhite;
    if(isWhite){
        console.log("it is white");
    }else{
        console.log("it is black");
    }
</script>
```

a. it is white

b. it is black

c. I don't know

d. Error

Quiz

Is it has the same output?

```
<script>
    let isFound = true;
    let i = 0;
    while(isFound){
        i++;
        console.log(i);
        if(i>10){
            isFound = false;
        }
    }
</script>
```

```
<script>
    let isFound = true;
    let i = 0;
    while(isFound){
        console.log(i);
        i++;
        if(i>10){
            isFound = false;
        }
    }
</script>
```

A. Yes

B. No

Quiz

What the console will display?

```
<script>
    let isFound = true;
    let i = 0;
    while(isFound){
        console.log(i);
        i++;
        if(i>10){
            isFound = false;
        }
    }
</script>
```

Quiz

Is it has the same output?

```
<script>
    let isFound = true;
    let i = 0;
    while(isFound){
        i++;
        console.log(i);
        if(i>10){
            isFound = false;
        }
    }
</script>
```

Quiz

What will display the value of the array car?

```
<script>
    let car = ["toyota", "kia", "RR"];
    for (index in car){
        console.log(index);
        console.log(car[index]);
    }
</script>
```

a. console.log(value)

b. console.log(car[value])

Quiz

What will display?

```
<script>
    let car = ["toyota", "kia", "RR"];
    for (index in car){
        console.log(index);
    }
</script>
```

CHAPTER 1

PYTHON *to* JS

PART 2

letIABLES

EXPLAIN

15 MIN

3 KIND OF LOOPS !

#1 - LOOP ON RANGE

1- Create index letiable

2- Condition to Stop the loop

3- How you increment the index

```
for (let index = 0; index < 10 ; index++) {
    console.log(index)
}
```

We loop 10 time !

3 KIND OF LOOPS !

#2 - LOOP ON INDEX OF ARRAY/STRING

```
for (let index in array) {
  // DO SOMETHING
}
```

#3 - LOOP ON VALUE OF ARRAY/STRING

```
for (let value of array) {
  // DO SOMETHING
}
```

15 MIN

What this code will print ?

```
let a = 10;
let b = 5;

if (a > 10 && b <= 5) {
    console.log("Ronan")
}else if (a > 10 || b <= 5) {
    console.log("Rady")
}else{
    console.log("Him")
}
```

A.	B.	C.	D.
Ronan	Rady	HIM	Error

15 MIN

What this code will print ?

```
let arr = [10, 30, 55, 22, 13];
let sum = 0;
for (let i = 0; i < arr.length; i++) {
    if (arr[i] > 22)  {
        sum += arr[i];
    }
}
console.log(sum);
```

A.	B.	C.	D.
85	98	50	Error

15 MIN

What this code will print ?

```
let arr = [10, 30, 55, 22, 13];
let sum = 0;
for (let index in arr) {
    if (arr[index] < 22)  {
        sum += arr[index];
    }
}
console.log(sum);
```

A.	B.	C.	D.
85	98	23	Error

15 MIN

What this code will print ?

```
let arr = [10, 30, 55, 22, 13];
let sum = 0;
for (let value of arr) {
    if (value <= 22 && value > 10)  {
        sum += value;
    }
}
console.log(sum);
```

A.	B.	C.	D.
85	35	23	Error

15 MIN

What this code will print ?

```
let arr = [10, 30, 55, 22, 13];
let sum = 0;
let index = 0;
while (index < arr.length) {
    if (arr[index] > 10 || arr[index] < 55) {
        sum += arr[index];
    }
    index++;
}
console.log(sum);
```

A.	B.	C.	D.
120	35	130	Error

15 MIN

What this code will print ?

```
let text = "Apple Banana Coconut";
let counter = 0;

for (let i = 0; i < text.length; i++) {
    if (text[i].toUpperCase() == "A") {
        counter += 1;
    }
}
console.log(counter);
```

A.	B.	C.	D.
3	4	5	Error

15 MIN

What this code will print ?

```
let text = "Banana";
let newText = "";

for (let i = 0; i < text.length; i++) {
    if (text[i] == text[i].toLowerCase()) {
        newText += text[i].toUpperCase();
    }else{
        newText += text[i].toLowerCase();
    }
}
console.log(newText);
```

A.	B.	C.	D.
BANANA	Banana	bANANA	Error

15 MIN

What this code will print ?

```
let text = "Banana";
let newText = "";

for (let i = 0; i < text.length; i++) {
    if (text[i] == "A" || text[i] == "a") {
        newText += text[i].toUpperCase();
    }else{
        newText += text[i].toLowerCase();
    }
}
console.log(newText);
```

A.	B.	C.	D.
bAnAnA	Banana	BaNaNa	Error

15 MIN

What this code will print ?

```
let text = "Banana";
let newText = "";

for (let char of text) {
    if (char == "a" || char == "A") {
        newText += "*"
    }else{
        newText += char
    }
}
console.log(newText);
```

A.	B.	C.	D.
bAnAnA	B*n*n*	BaNaNa	Error

== or ===?

What this code will print ?

```
let fourAsNumber = 4;
let fourAsString = "4";
console.log(fourAsNumber == fourAsString);
```

EXPLAIN

15 MIN

== or ===?

What this code will print ?

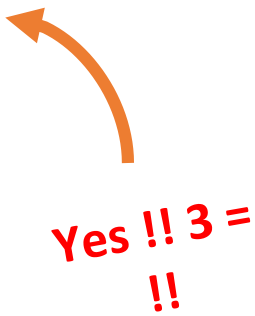
```
let fourAsNumber = 4;
let fourAsString = "4";
console.log(fourAsNumber === fourAsString);
```

Yes !! 3 = !!

YOU SHOULD

ALWAY

USE S===



ADVANCED FEATURES

IF TIME…

TYPES in JS

What this code will print ?

```
let x = 16 + “volvo“

console.log(x)
```

A	B	C	D
16	16volvo	Syntax error	Runtime error

TYPES in JS

What this code will print ?

```
let x =  4 + 16 + “Volvo”
console.log(x)
```

A	B	C	D
20volvo	416volvo	Syntax error	Runtime error

TYPES in JS

What this code will print ?

let x = “Volvo” + 4 + 16

```
console.log(x)
```

A	B	C	D
volvo20	volvo416	Syntax error	Runtime error

LET & CONST

What this code will print ?

```
let x =  4
x = 5

console.log(x)
```

A	B	C	D
4	5	Syntax error	Runtime error

LET & CONST

What this code will print ?

```
const x =  4
x = 5

console.log(x)
```

A	B	C	D
4	5	Syntax error	Runtime error

Undefined variables

What this code will print ?

```
let carName;
console.log(carName);
```

JavaScript Block Scope

letiables declared with the `let` keyword cannot have **Block Scope**.

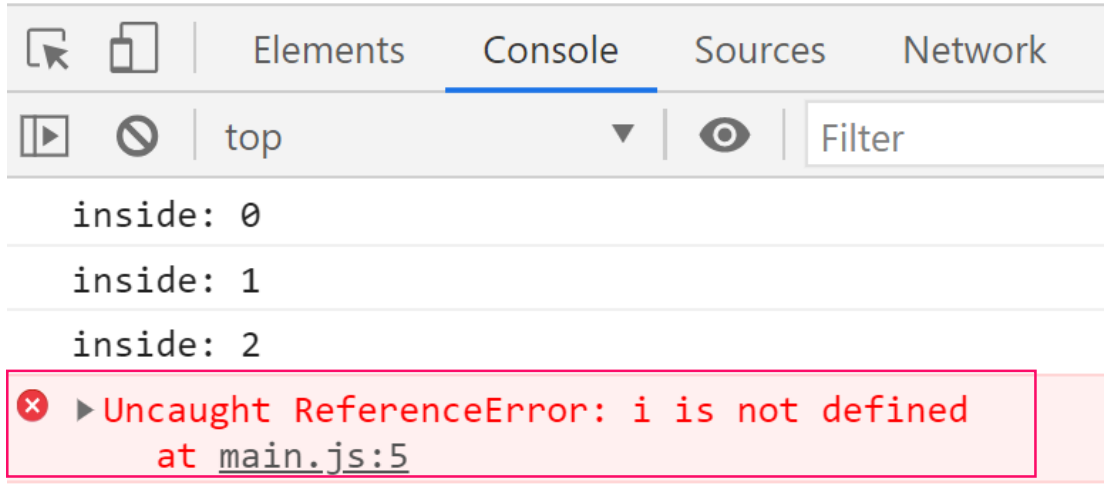
letiables declared inside a block **{}** can be accessed from outside the block.

letiables declared with the `let` keyword can have **Block Scope**.

letiables declared inside a block **{}** cannot be accessed from outside the block.

let
keyword

```
for (let i = 0; i < 3; i ++) {
    console.log("inside: " + i);
}
console.log("outside: " + i);
```



const keyword

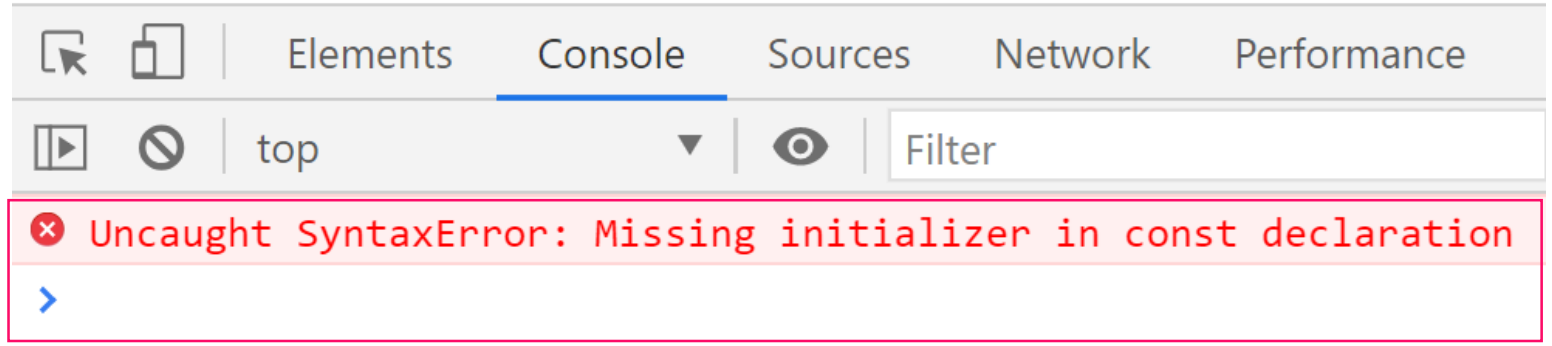
letiables defined with const behave like let letiables, except they cannot be reassigned.

Declaring a letiable with const is similar to let when it comes to Block Scope.

Assigned when Declared

```
const stringName;
stringName = "rady";

console.log(stringName);
```



`const` letiables must be assigned a value when they are declared

const keyword

```
const stringName = "ronan";
stringName = "rady";

console.log(stringName);
```