



15 MIN

HOMework REVIEW

**Tell me all differences you
Observed btw PYTHON and JS**



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(index)

b. console.log(car[index])

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
letTABLES



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.

85

B.

98

C.

50

D.

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.

85

B.

98

C.

23

D.

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.

85

B.

35

C.

23

D.

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.

120

B.

35

C.

130

D.

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.

3

B.

4

C.

5

D.

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.
BANANA

B.
Banana

C.
bANANA

D.
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 | BaNaN | 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.
bAnAnA

B.
B*n*n*

C.
BaNaNa

D.
Error

== or ===?

What this code will print ?

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



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==**

Yes !! 3 =
!!



ADVANCE

D

FEATURES

IF TIME...

TYPES in JS

What this code will print ?

```
let x = 16 + "volvo"
```

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

A

16

B

16volvo

C

Syntax
error

D

Runtime error

TYPES in JS

What this code will print ?

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

A

20volvo

B

416volvo

C

Syntax
error

D

Runtime error

TYPES in JS

What this code will print ?

```
let x = "Volvo" + 4 + 16
```

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

A

volvo20

B

volvo416

C

Syntax
error

D

Runtime error

LET & CONST

What this code will print ?

```
let x = 4
```

```
x = 5
```

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

A

4

B

5

C

Syntax
error

D

Runtime error

LET & CONST

What this code will print ?

```
const x = 4  
x = 5
```

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

A

4

B

5

C

Syntax
error

D

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**.

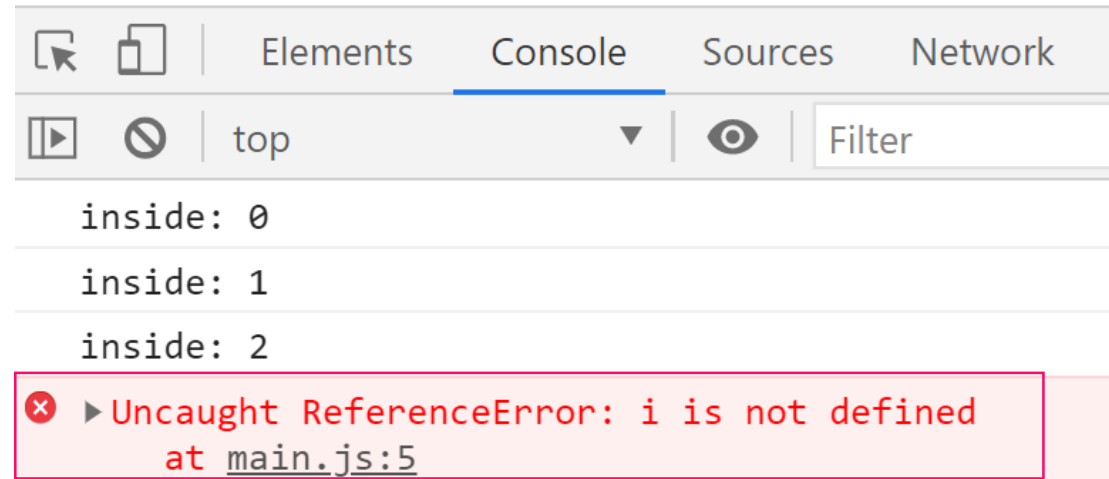
letiables declared inside a block `{}` **can** be accessed from outside the block.

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);
```



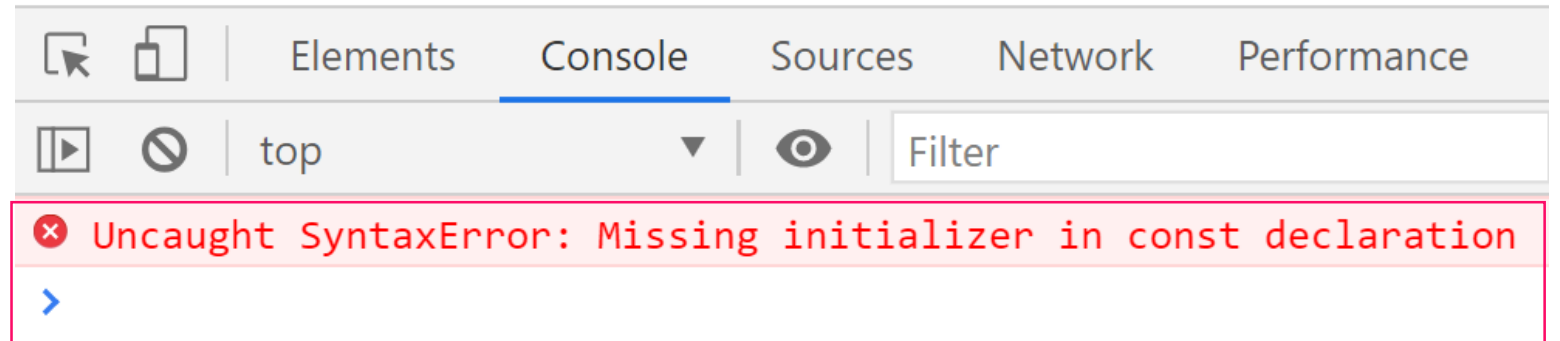
const keyword

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);
```

