**DAY 6 TASK**

# **2.** **GUVI: Zen Class — Part 1: Find the culprits and nail them — debugging javascript**

2.1.fix.html

<!DOCTYPE html>

<html>

<body>

<script>

alert( “I’m JavaScript!’);

</script>

Whats the error in this ?

</body>

</html>

**CORRECT CODE:**

<!DOCTYPE html>

<html>

<body>

<script>

alert( “I’m JavaScript!”);

</script>

Whats the error in this ?(Error solved!)

</body>

</html>

2.2. fix.html

<!DOCTYPE html>

<html>

<body>

<script src=”script.js”></script>

</body>

</html>

**CORRECT CODE:**

<!DOCTYPE html>

<html>

<body>

<script src=”scripts.js”></script>

</body>

</html>

scripts.js

alert(“I’m invoked!”);

**2.3Explain the below how it works**

<!DOCTYPE html>

<html>

<body>

<script src=”script.js”></script>

</body>

</html>

script.js

alert("I'm JavaScript!");

alert('Hello') // this line is not having semicolon

alert(`Wor

ld`)

alert(3 +

1

+ 2); // this is multiple line code and its working

**CORRECT CODE:**

<!DOCTYPE html>

<html>

<body>

<script src=”script.js”></script>

</body>

</html>

script.js

alert("I'm JavaScript!");

alert('Hello') // Javascript ‘;’ is not mandate

alert(`Wor

ld`)alert(3 +

1

+ 2); // function is in closure even in multiple lines

**2.4. Fix the below to alert** Guvi geek

x.html

<!DOCTYPE html>

<html>

<body>

<script src=”script.js”></script>

</body>

</html>

script.js

let admin=9, fname=10.5;

fname = "Guvi";

lname = "geek"

admin = fname+lname;alert( admin ); // "Guvi geek"

Correct Code

<!DOCTYPE html>

<html>

<body>

<script src=”script.js”></script>

</body>

</html>

script.js

let admin=9, fname=10.5;

fname = "Guvi";

let lname = "geek" //added let

admin = fname+lname;

alert( admin ); // "Guvi geek"

**2.5.** **Fix the below to alert** hello Guvi geek

<!DOCTYPE html>

<html>

<body>

<script src=”script.js”></script>

</body>

</html>

script.js

let fname=10.5;

fname = "Guvi";

lname = "geek"let name = fname+lname;alert( 'hello ${name}' );

**CORRECT CODE**

<!DOCTYPE html>

<html>

<body>

<script src=”script.js”></script>

</body>

</html>

script.js

let fname=10.5;

fname = "Guvi";

let lname = "geek" //let added

let name = fname+lname;alert( 'hello ${name}' );

# 

# **3** : Find the culprits and nail them — debugging javascript loops

**3.1Write a code to print the numbers in the array**

**Output**: 1234567891011

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];var new\_string = “”;

for (var i = 1; i < 11; i--) {

new\_string += numsArr[i]

}console.log(new\_string);

**Correct code**

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];

var new\_string = []

for (var i = 0; i < numsArr.length; i++) {

new\_string += numsArr[i]

}

console.log(new\_string);

**3.2** Write a code to print from last to first with spaces (Make sure there is no space after the last element 1)

**Output**: 11 10 9 8 7 6 5 4 3 2 1

var new\_string = “”;

for (var i = 11; i > 0; i — ) {

new\_string += numsArr[i] + “ “

}

console.log(new\_string);

**Correct code:**

var new\_string = "";

for (var i = 11; i > 0; i-- ) {

new\_string += i + " "

}

console.log(new\_string);

**3.3** Write a code to replace the array value — If the number is even, replace it with ‘even’.

**Output**:[ 1, “even”, 3, “even”, 5, “even”, 7, “even”, 9, “even”, … ]

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];for (var i = 0; i <=10; i++) {

if(numsArr[i] %2 == 0 )

{

numsArr[i] = odd

}

}

console.log(numsArr);

**Correct Code**

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];

for (var i = 0; i <=10; i++) {

if(numsArr[i] %2 == 0 )

{

numsArr[i] = "even"

}

}

console.log(numsArr);

**3.4** Write a code to add the even numbers only

**Output**: 30

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];

var sum=0;for (var i = 0; i <10; i++) {

if(numsArr[i]%2==0);

sum += numsArr[i]

}

console.log(sum);

**Correct Code**

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];

var sum=0;

for (var i = 0; i <10; i++) {

if(numsArr[i]%2==0){

sum += numsArr[i]

}

}

console.log(sum);

**3.5** Write a code to add elements in the inner arrays based on odd or even values

**Output**:

36

30

var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];

var sum\_odd=0;

var sum\_even=0;for (var i = 0; i < numsArr.length; i++) {

var inner\_array = numsArr[i];

for(var j = 0 ; j < inner\_array.length;j++ ){

if(numsArr[i]%2!=0)

{

sum\_odd += numsArr[i]

}

else

{

sum\_even += numsArr[i]

}

}

}

console.log(sum\_odd);

console.log(sum\_even);

[**Correct**](https://medium.com/@reach2arunprakash?source=post_sidebar--------------------------post_sidebar--------------) **Code**

var sum\_odd=0;

var sum\_even=0;

var arr = [1,2,3,4,5,6,7,8,9,10,11]

for(var i=0;i<arr.length;i++){

if (arr[i]%2==0 ){

sum\_even+=arr[i]

}

else{

sum\_odd+=arr[i]

}

}

console.log("even :"+sum\_even);

console.log("odd :"+sum\_odd);

# **4.** Find the culprits and nail them — debugging javascript

4.1. **Fix the code to get the largest of three.**

Code:

aa = (f,s,t) => {

let f,s,t;

console.log(f,s,t);

if(f>s &&f>t){

console.log(f)}

else if(s>f && s>t){

console.log(s)}

else{

console.log(t)}

}aa(1,2,3);

**Correct Code**

var aa = (f,s,t) => {

console.log(f,s,t);

if(f>s &&f>t){

console.log(f)}

else if(s>f && s>t){

console.log(s)}

else{

console.log(t)}

}

console.log(aa(1,2,3));

4.2 **Fix the code to Sum of the digits present in the number**

Code:

let n = 123;console.log(add(n));function add(n)

{

let sum = 10;

for(var i=0;i<n.length;i++){

sum+=n[i]

}

return sum;

}

**Correct Code**

let n=12312311

let x= String(n)

let a=x.split('')

console.log(a)

console.log(add(a));

function add(a)

{

let sum = 0;

for(var i=0;i<a.length;i++){

sum+=parseInt(a[i])

}

return sum;

}

4.3 **Fix the code to Sum of all numbers using IIFE function**

Code:

const arr = [9,8,5,6,4,3,2,1];(function() {

let sum = 0;

for (var i = 0; i <= arr.length; i++);{

sum += arr[i];

}

console.log(sum);

return sum;

})();

correct code

const arr = [9,8,5,6,4,3,2,1]

(function(){

let sum=0

for(var i=0;i<arr.length;i++){

sum+=arr[i]

}

console.log(sum)

})(arr)

4.4 **Fix the code to sum the number in that array**

Code:

const num = [10, 20, 30, 40,50,60,70,80,90,100]

const sum = (a, b) =>

a + b

const sum = num.reduce(sum)

console.log(sum);

Correct Code:

var num = [10, 20, 30, 40,50,60,70,80,90,100]

var sum = num.reduce((acc,cv)=>acc+cv,0)

console.log(sum);

4.5 **Fix the code to rotate an array by k times and return rotated array using IIFE function**

Code:

var arr = [1, 2, 3, 6, 8, 6, 1, 9, 10, 12, 13];

var k = 3;

k = arr.length % k;

(function() {

arr = {};

out = arr.slice(k + 1, arr.length);

var count = out.length;

for (var i = 0; i < k + 1; i++) {

out[count] = arr[i];

count += 1;

}

console.log(out);})();

Correct Code:

var arr = [1, 2, 3, 6, 8, 6, 1, 9, 10, 12, 13];

var k = 3;

k = arr.length % k;

(function() {

var out = arr.slice(k + 1, arr.length);

var count = out.length;

for (var i = 0; i < k + 1; i++) {

out[count] = arr[i];

count += 1;

}

console.log(out);})(arr);