***Day 6 Assignments***

# 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);