**DAY -06**

1. <https://medium.com/@reach2arunprakash/guvi-zen-class-find-the-culprits-and-nail-them-9ee6c67c44fb>

**Part 1: Find the culprits and nail them — debugging javascript**

**Find the culprit**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script>  
 alert( “I’m JavaScript!’);  
 </script>  
 Whats the error in this ?  
</body>  
</html>

<!DOCTYPE html>

<html>

<body>

 <script>

 alert( "I'm JavaScript!");

 </script>

 Whats the error in this ?

</body>

</html>

**2)Find the culprit and invoke the alert**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

scripts.js

alert(“I’m invoked!”);

<!DOCTYPE html>

<html>

<body>

 <script src="scripts.js"></script>

</body>

</html>

</html>

**3)Explain the below how it works**

explain.html

<!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

**script.js**

    alert("I'm JavaScript!"); // this is single line code and its working

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

    alert(`Wor

     ld`) // this is multiple line code and its working and it not having semicolon

    alert(3 +

    1

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

**4)Fix the below to alert**Guvi geek

fix.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"

**script.js**

<!DOCTYPE html>

<html>

<body>

 <script>

let admin=9, fname=10.5;

fname = "Guvi";

lname = "geek"

admin =  `"${fname} ${lname}"`;

alert(admin); // "Guvi geek"

**5) Fix the below to alert**hello Guvi geek

fix.html

<!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}' );

let fname=10.5;

fname = "Guvi";

lname = "geek"

let name = fname + lname;

alert( `hello ${name}` );

**6) Fix the below to alert sum of two numbers**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

script.js

let a = prompt("First number?");  
let b = prompt("Second number?");  
alert(a + b);

let a = prompt("First number?");

let b = prompt("Second number?");

alert(+a+ +b);

**7) If you run the below scritpt you will get “**Code is Blasted**”**

**Explain Why the Code is blasted and how to diffuse it and get “**Diffused**”.**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

script.js

var a = "2" > "12";//Don't touch below this  
if (a) {  
 console.log("Code is Blasted")  
}  
else  
{  
 console.log("Diffused")   
}

Reason:

The below given variable a has a conditional value. Before changing the code

We get “code is Blasted” as a result. Because if the two numeric strings are compared the strings will be compared alphabetically.( 1 is less than 2 so the given condition is true). So, the If condition statement gets executed.

If we change var a = “12” > ”2” . The given condition is false. So, else statement gets Executed. We get “Diffused” as a result.

var a = "12" > "2";

//Don't touch below this

if (a) {

  console.log("Code is Blasted")

}

else

{

  console.log("Diffused")

}

**8) How to get the success in console.**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

script.js

let a = prompt("Enter a number?");

//Don't modify any code below this

if (a) {  
 console.log( 'OMG it works for any number inc 0' );  
}  
else  
{  
 console.log( "Success" );  
}

Answer:

If we want to get success, after typing a number in prompt box then click cancel will show Success as a output.

let a = prompt("Enter a number?");

//Don't modify any code below this

if (a) {

 console.log( 'OMG it works for any number inc 0' );

}

else

{

 console.log( "Success" );

}

**9) How to get the correct score in console.**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

script.js

let value = prompt('How many runs you scored in this ball');  
if (value === 4) {  
 console.log("You hit a Four");  
} else if (value === 6) {  
 console.log("You hit a Six");  
} else {  
 console.log("I couldn't figure out");  
}

let value = prompt('How many runs you scored in this ball');

if (value == 4) {

      console.log("You hit a Four");

} else if (value == 6) {

      console.log("You hit a Six");

} else {

      console.log("I couldn't figure out");

}

**10)Fix the code to welcome the Employee**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

script.js

let login = 'Employee';  
let message = (login == 'Employee') ? :  
 (login == 'Director') ? 'Greetings' :  
 (login == '') ? 'No login' :  
 '';console.log(message);

let login = 'Employee';

let message = (login = "Employee" ) ? 'Greetings':

  (login = "Director") ?

  (login = '') : 'No login'

  console.log(message);

**11) Fix the code to welcome the boss**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

script.js

// You cant change the value of the msg  
let message;if (null || 2 || undefined )  
{  
 let message = "welcome boss";  
}  
else  
{  
 let message = "Go away";  
}  
 console.log(message);

// You cant change the value of the msg

let message;

let hello="welcome" ;

if (null || hello || undefined )

{

  message = "welcome boss";

}

else

{

 message = "Go away";

}

  console.log(message);

**12)Fix the code to welcome the boss**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

script.js

let message;  
let lock = 2;//Dont change any code below this if (null || lock || undefined )  
{  
 message = "Go away";  
}  
else  
{  
 message = "welcome";  
}  
 console.log(message);

let message;

let lock ;

//Dont change any code below this

if (null || lock || undefined )

{

  message = "Go away";

}

else

{

 message = "welcome";

}

  console.log(message);

**13)Fix the code to welcome the boss**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

script.js

let message;  
let lock = 2;//Dont change any code below thisif (lock && " " || undefined )  
{  
 message = "Go away";  
}  
else  
{  
 message = "welcome";  
}  
console.log(message);

et message;

let lock;

//Dont change any code below this

if (lock && " " || undefined )

{

  message = "Go away";

}

else

{

 message = "welcome";

}

console.log(message);

1. <https://medium.com/@reach2arunprakash/www-guvi-io-zen-4fa483a7d359>

1)Write 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);

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

var new\_string = "";

for (var i = 1; i<=numsArr.length; i++) {

 new\_string +=[i]

}

console.log(new\_string);

2)Write a code to print the numbers in the array

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

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);

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

console.log(numsArr.join(","))

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

console.log(numsArr.reverse().join(" ").trim());

4) Write a code to add all the numbers in the array

Output: 66

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

for (var i = 0; i <=10; i++) {  
 var sum;  
 sum += numsArr[i]  
}  
console.log(sum);

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

var sum=0;

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

 sum=sum+numsArr[i];

}

console.log(sum);

5) 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);

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

var even= numsArr.filter(item=>item%2==0);

var sum=0;

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

 sum=sum+even[i];

}

console.log(sum);

6) Write a code to add the even numbers and subract the odd numbers  
**Output**: 94

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  
var sum=100;for (var i = 0; i <=10; i++) {  
 if(numsArr[i]%2!=0);  
 {  
 sum += numsArr[i]  
 }  
 else  
 {  
 sum -= numsArr[i]  
 }  
}  
console.log(sum);

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

var even= numsArr.filter(item=>item%2==0);

var odd= numsArr.filter(item=>item%2!=0);

var sum=100;

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

 sum=sum+even[i];

}

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

 sum=sum-odd[i];

}

console.log(sum);

7) Write a code to print elements in the inner arrays  
**Output**: 1234567891011

var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];  
var str\_all=0;for (var i = 0; i < numsArr.length; i++) {  
 var inner\_array = numsArr[i];  
 for(var j = 0 ; j < inner\_array.length;i++ )  
 str\_all +=inner\_array[j]  
}  
console.log(str\_all);

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

let s=""

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

let len = numsArr[i].length

for (var j = 0; j < len; j++) {

 s+=numsArr[i][j]

}

}

console.log(s)

8) Write a code to print elements in the inner arrays in reverse  
**Output**: 11 10 9 8 7 6 5 4 3 2 1

var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];  
var str\_all=0;for (var i = 0; i < numsArr.length; i++) {  
 var inner\_array = numsArr[i];  
 for(var j = inner\_array.length; j < 0 ;j-- )  
 str\_all +=inner\_array[j]  
}  
console.log(str\_all);

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

   var rev = [];

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

   let len = numsArr[i].length

   for (var j = 0; j < len; j++) {

    rev.push(numsArr[i][j])

   }

   }

   console.log(rev.reverse().join(" ").trim());

9) 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);

  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][j]%2!=0)

    {

    sum\_odd += numsArr[i][j]

    }

    else

    {

    sum\_even += numsArr[i][j]

    }

   }

   }

   console.log(sum\_odd);

   console.log(sum\_even);

1. <https://medium.com/@reach2arunprakash/guvi-zen-simple-debugging-tasks-adcdc2d3249d>

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

**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);

let f,s,t;

aa = (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(51,27,31);

2) **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);

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

   const sum = (a, b) =>

    a + b

   const s = num.reduce(sum)

   console.log(s);

3) **print all odd numbers in an array using IIFE function**

Code:

var arr = [1, 2, 3, 5, 7, 79, 7, 2, 6, 9, 4];(function() {  
 for (var i = 0; i < arr.length; i++) {  
 if (arr[i] % 2 === 0) {  
 console.log(arr[i]);  
 }}  
})();

 var arr = [1, 2, 3, 5, 7, 79, 7, 2, 6, 9, 4];

(function() {

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

 if (arr[i] % 2 != 0) {

 console.log(arr[i]);

 }}

})();

4) **Fix the code to reverse.**

Code:

(function(str){  
 str1 = str.split(“ “).reverse().join(“”);  
 console.log(str1);   
})(“abcd”)

(function(str){

      str1 = str.split("").reverse().join("");

      console.log(str1);

     })("abcd")