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

<!DOCTYPE html>

<html>

<body>

 <script> alert("I'm Javascript");</script>

What is the error

</body>

</html>

1. **Find the culprit and invoke the alert**

<!DOCTYPE html>

<html>

<body>

 <script src="scripts.js"></script>

</body>

</html>

1. 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

Alert function is being invoked in sequential order of the program written in script.js

1. **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"

let admin=9, fname=10.5;

fname = "Guvi";

lname = "geek"

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

1. Fix the below to alert hello Guvi geek

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 ${fname} ${lname}`);

1. Fix the below to alert sum of two numbers

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);

1. Fix the below to alert sum of two numbers

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);

1. 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”

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

Code is blasted because 2 is greater than 12. In order to diffuse it, we need to change “2” to any value above “12”.

1. How to get the success in console.

let a = prompt("Enter a number?");//Don't modify any code below thisif (a) {  
 console.log( 'OMG it works for any number inc 0' );  
}  
else  
{  
 console.log( "Success" );

Need to click ok without entering value when browser prompt for value

1. How to get the correct score in console.

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");

}

1. Fix the code to welcome the Employee

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') ? 'Welcome Director' :'No login');

console.log(message);

1. Fix code to welcome the boss

// 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;

if (null || 2 || undefined )

{

 message = "welcome boss";

}

else

{

 message = "Go away";

}

  console.log(message);

1. Fix the code to welcome the Boss

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);

1. Fix the code to welcome the boss

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

let message;

let lock;

//Dont change any code below this

if (lock && " " || undefined )

{

  message = "Go away";

}

else

{

 message = "welcome";

}

console.log(message);

1. Change the code to Print (Pending)

3

2

1

//You can change only 2 characterslet i = 3;while (i) {  
 console.log( --i );  
}

1. Change the code to print 1 to 10 in 4 lines

let num = 1

for (num; num<=10; num++)

console.log(num)

1. Change the code to print even numbers

//You are allowed to modify only one character for (let num = 2; num <= 20; num += 1) {  
 console.log(num)  
}

for (let num = 2; num <= 20; num += 2) {

    console.log(num)

  }

1. Change the code to print all the gifts

let gifts = ["teddy bear", "drone", "doll"];for (let i = 0; i < 3; i++) {  
 console.log('Wrapped ${'gifts[i]'} and added a bow!');  
}

let gifts = ["teddy bear", "drone", "doll"];

for (let i = 0; i < 3; i++) {

  console.log(`Wrapped ${gifts[i]} and added a bow!`);

}

19. Fix the code to disarm the bomb

let countdown = 100;while (countdown > 0) {  
 countdown--;  
 if(countdown == 0)  
 {  
 console.log("bomb triggered");  
 }  
}

let countdown = 100;

while (countdown > 0) {

  if(countdown == 0)

   console.log("bomb triggered");

   countdown--;

}

1. Whats the msg printed and why?

var lemein = “0”;  
var lemeout = 0;  
var msg = “”;if (lemein) {  
 msg += “hi”;  
 }if (lemeout) {  
 msg += ‘Hello’;  
}console.log(msg);

Output : hi //If condition will not pass if we enter falsy value. 0 in lemeout is falsy value and “0” in lemein variable is string because it was entered within “”

1. Whats the msg printed and why? Guess you answer before running it.

var lemein = “0”;  
var lemeout = 0;  
var msg = “”;if (lemein) {  
 msg += “hi”;  
 }if (lemeout) {  
 msg += ‘Hello’;  
}console.log(msg);

Output : hi //If condition will not pass if we enter falsy value. 0 in lemeout is falsy value and “0” in lemein variable is string because it was entered within “”

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

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 = 0; i < 11; i++) {

 new\_string += numsArr[i]

}

console.log(new\_string);

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];

var new\_string = "";

let arr = numsArr.map(String);

console.log(arr.join(","));

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);

var new\_string = "";

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

 new\_string += i + " "

}

console.log(new\_string);

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);

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);

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

**Output**: [ “even”, 2, “even”, 4, “even”, 6, “even”, 8, “even”, 10, … ]

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);

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);

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];

let temp = numsArr.reduce((arg, x)=> arg + x);

console.log(temp);

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 sum=0;

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

 if(numsArr[i]%2==0){

    // console.log(numsArr[i]);

    sum += numsArr[i];

 }

}

console.log(sum);

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 sum=100;

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

 if(numsArr[i]%2==0)

 sum += numsArr[i];

 else

 sum -= numsArr[i];

}

console.log(sum);

Write a code to print inner arrays  
**Output**:

Array(5) [ 1, 2, 3, 4, 5 ]  
Array(6) [ 6, 7, 8, 9, 10, 11 ]

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

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

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

console.log(`Array(${numsArr[i].length})`, numsArr[i])

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]];

var str\_all = "";

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

{

 for(var j = 0 ; j < numsArr[i].length;j++ )

    str\_all += numsArr[i][j]+"";

}

console.log(str\_all);

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

**Output**: [ [“even”, 2, “even”, 4, “even”], [6, “even”, 8, “even”, 10, …] ]

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++ )  
 if(numsArr[i] %2 == 0 )  
 {  
 numsArr[i] = even  
 }  
}  
console.log(numsArr);

//Write a code to replace the array value — If the index is even, replace it with ‘even’

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

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

{

    for(let j = 0; j < numsArr[i].length; j++)

    {

        if(j % 2 == 0)

        {

        console.log(`Index - ${j}, ${numsArr[i][j]}`);

        numsArr[i][j] = "Even";

    }

    }

}

console.log(numsArr);

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]];

let  arr = [];

for(let i = numsArr.length-1; i >= 0; i--)

{

    for(let j = numsArr[i].length-1; j >= 0; j--)

    {

        arr.push(numsArr[i][j]);

    }

}

console.log(...arr);

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(let i = 0; i<numsArr.length; i++)

{

    for(let j = 0; j<numsArr[i].length; j++)

    {

        if(numsArr[i][j] % 2 == 0)

        sum\_even = sum\_even + numsArr[i][j];

        else

        sum\_odd = sum\_odd + numsArr[i][j];

    }

}

console.log(sum\_even);

console.log(sum\_odd);

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

**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 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)}

   }

aa(1,5,3);

**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;  
}

let n = 123;

console.log(add(n));

function add(n)

{

let temp = (n.toString()).split("");

let sum = 0;

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

sum+= +temp[i]

}

return sum;

}

**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;  
})();

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

(function(arr) {

 let sum = 0;

 for (var i = 0; i < arr.length; i++)

 {

 sum += +arr[i];

 }

 console.log(sum);

 return sum;

})(arr);

**Fix the code to gen Title caps.**

Code:

var arr = [“guvi”, “geek”, “zen”, “fullstack”];var ano = function(arro) {  
 for (var i = 0; i <= arro.length; i++) {  
 console.log(arro[i][0].toUpperCase() + arro[i].substr(1));  
 }  
}  
ano();

var arr = ["guvi", "geek", "zen", "fullstack"];

var ano = function(arro) {

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

 console.log(arro[i][0].toUpperCase() + arro[i].substr(1));

 }

}

ano(arr);

**Fix the code to return the Prime numbers**

Code:

const newArray=[1,3,2,5,10];  
const myPrime=newArray.filter(num=>{  
 for(let i=2;i<=num;i++){  
 if(num%i===0)  
 {  
 return true;  
 }  
 }  
 return num===1;  
});  
console.log(myPrime);

const newArray=[1,3,2,5,10];

const myPrime=newArray.filter(num=>{

let temp = 0

for(let i=1;i<=num;i++){

 if(num%i==0) //

 temp += 1;

 }

 if(temp == 2)

 return num;

 });

console.log(myPrime);

**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]

let sum = num.reduce((a,b)=> a + b);

console.log(sum);

**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);})();

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

var k = 3;

k = arr.length % k;

(function() {

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

 var count = out.length;

 for (var i = 0; i <= k; i++) {

 out[count] = arr[i];

 count += 1;

 }

 console.log(out);})();

**Fix the code to gen Title caps.**

Code:

var arr = [“guvi”, “geek”, “zen”, “fullstack”];(function() {  
 for (var i = 0; i <= arr.length; i++) {  
 console.log(arr[0][i].toUpperCase() + arr[i].substr(1));  
 }  
})();

var arr = ["guvi", "geek", "zen", "fullstack"];

(function() {

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

 console.log(arr[i][0].toUpperCase() + arr[i].substr(1));

 }

})();

**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]);

 }}

})();

**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")

**Fix the code to remove duplicates.**

Code:

var res = function(arr){  
 for(var i=0; i < arr.length; i++){  
 newArr = [];  
 if(newArr.indexOf(arr[i]) == -1) {  
 newArr.push(arr[i]);  
 } }  
 console.log(newArr)  
}res([“guvi”,”geek”,”guvi”,”duplicate”,”geeK”])

let newArr = [];

var res = function(arr){

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

        if(arr.indexOf(arr[i]) == i) {

    newArr.push(arr[i]);

    } }

    console.log(newArr)

   }

   res(["guvi","geek","guvi","duplicate","geeK"])

**Fix the code to give the below output:**

Expected Output:

[  
{firstName: “Vasanth”, lastName: “Raja”, age: 24, role: “JSWizard”},  
{firstName: “Sri”, lastName: “Devi”, age: 28, role: “Coder”}  
]

Code:

var array =[[[“firstname”,”vasanth”],[“lastname”,”Raje”],[“age”,24],[“role”,”JSWizard”]],[[“firstname”,”Sri”],[“lastname”,”Devi”],[“age”,28],[“role”, “Coder”]]];  
var final=[]  
while(array.length!=0)  
{  
 var outer\_remove = array.shift();

var array = [[["firstname", "vasanth"], ["lastname", "Raje"], ["age", 24], ["role", "JSWizard"]], [["firstname", "Sri"], ["lastname", "Devi"], ["age", 28], ["role", "Coder"]]];

var final = []

while (array.length !=0) {

    console.log(array.length);

    var outer\_remove = array.shift();

    let new\_object = {};

    while (outer\_remove.length !=0) {

        var inner\_remove = outer\_remove.shift()

        var key = inner\_remove[0]

        var value = inner\_remove[1]

        new\_object[key] = value;

    }

    final.push(new\_object)

}

console.log(final)

**Fix the code to give the below output:**

Sum of odd numbers in an array

Code:

var as=[12,34,5,6,2,56,6,2,1];  
var s=as.reduce(function(a,c){  
 if(c%2!=0)  
 {  
 return a+c;  
 }  
 return a;});  
console.log(s);

var as=[12,34,5,6,2,56,6,2,1];

var s=as.reduce((a,c)=>{

    if(c%2!= 0)

 return a + c;

 return a;

},0);

console.log(s);

**Fix the code to give the below output:**

Swap the odd and even digits

Code:

aa = data=>{  
 var a=data;  
for(i=0;i<a.length-1;i++){  
 var l=’’;  
 var s=a[i+1]  
 var b=a[i]  
 l+=s  
 l+=b  
 i=i+1  
}  
if((a.length%2)!=0){  
 l+=a[a.length-1]  
}  
console.log(l);  
}aa(“1234”);

let aa = data=>{

    var a=data;

    var l='';

   for(i=0;i<a.length-1;i++){

    var s=a[i+1]

    var b=a[i]

    l+=s

    l+=b

    i=i+1

   }

   if((a.length%2)!=0){

    l+=a[a.length-1]

   }

   console.log(l);

   };

   aa("1234");