1. **https://medium.com/@reach2arunprakash/www-guvi-io-zen-d395deec1373**
2. **Declare variables to store your first name, last name, marital status, country and age in a single line**

**Answer:**

let firstname = "John";

let secondname = "doe";

let martialstatus = "single";

let country = "india";

let age = "25";

console.log(firstname,secondname,martialstatus,country,age);

1. **Addition of 3 numbers**

**Answer:**

let arr=[5,7,8];

let add = arr[0]+arr[1]+arr[2];

console.log(add);

1. **Pounds to kg**

**Answer:**

let pound = 10;

let onekg = 0.453592;

let kg = pound\*onekg;

console.log(kg);

1. **Given their radius of a circle and find its diameter, circumference and area**

**Answer:**

let pi = 3.142

let radius = 5;

let diameter = 2\* radius;

let circumference = 2\*pi\*radius;

let area = pi\*radius\*radius

console.log(diameter);

console.log(circumference);

console.log(area);

1. **Write out an object literal to represent the data below.**

**Guvi, Geek, 6, IIT-M RP,Chennai.**

**Answer:**

let Address =[{

name : "Guvi",

centre : "Geek",

no : 6,

locatednear : "IIT-M rp",

city : "Chennai"

}];

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

console.log(Address[i].name,Address[i].centre,Address[i].no,Address[i].locatednear,Address[i].city);

}

1. [**https://medium.com/@reach2arunprakash/guvi-zen-class-find-the-culprits-and-nail-them-9ee6c67c44fb**](https://medium.com/@reach2arunprakash/guvi-zen-class-find-the-culprits-and-nail-them-9ee6c67c44fb)
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!”);

**Answer:**

Js file given in HTML script is incorrect.

**Actual code:**

<!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

**Answer:**

In the above code four alert tags have been given. That is (“I’m Javascript!”),(‘hello’),(‘World’),(3+1+2).

The output in browser will show alerts one by one like I’m Javasript, Hello, World, & 6.

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

**Answer:**

To get success as output for the above code the value sould be empty for “Enter a number” prompt in browser.

1. **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);

**Answer:**

Change the value of lock from 2 to null. So as per the condition below the output will be welcome.

**Actual code**:

let message;

let lock = null;

//Dont change any code below this

if (null || lock || undefined )

{

  message = "Go away";

}

else

{

 message = "welcome";

}

  console.log(message);

1. **Change the code to print**

3

2

1

fix.html

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

script.js

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

**Answer:**

In console log decrement should come after I like i—so the decrement from start from 3 to 1.

**Actual code:**

let i = 3;

while (i) {

  console.log( i-- );

}

1. [**https://medium.com/@reach2arunprakash/www-guvi-io-zen-4fa483a7d359**](https://medium.com/@reach2arunprakash/www-guvi-io-zen-4fa483a7d359)
2. **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);

**Answer:**

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);

1. **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);

**Answer:**

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

var new\_string = "";

let a = (numsArr.reverse());

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

new\_string += a[i] + " ";

}

console.log(new\_string);

1. **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);

**Answer:**

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);

1. **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);

**Answer:**

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

let a = numsArr.map(Number);

let sum = 0 ;

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

sum+=a[i]

}

console.log(sum);

1. **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);

**Answer:**

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

var str\_all=numsArr[0].concat(numsArr[1])

var new\_string ="";

for(var i=0;i<str\_all.length;i++) {

new\_string+=str\_all[i]+"";

}

console.log(new\_string);

1. [**https://medium.com/@reach2arunprakash/guvi-zen-simple-debugging-tasks-adcdc2d3249d**](https://medium.com/@reach2arunprakash/guvi-zen-simple-debugging-tasks-adcdc2d3249d)
2. **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;  
})();

**Answer:**

(function(arr) {

let sum = 0;

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

sum += arr[i];

}

console.log(sum);

})

([9,8,5,6,4,3,2,1]);

1. **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);

**Answer:**

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

const myPrime=newArray.filter(num=>{

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

if(num%i===1)

{

return true;

}

}

return num===0;

});

console.log(myPrime)

1. **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);

**Answer:**

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

const sum =num.reduce ((acc, b) =>

acc + b,0)

console.log(sum);

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]);  
 }}  
})();

**Answer:**

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 === 1) {

console.log(arr[i]);

}}

})();

1. **Fix the code to reverse.**

**Code:**

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

**Answer:**

(function(str){

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

console.log(str1);

})("abcd")