1) **In alert "I’m JavaScript!" we need to keep the error**

alert("I’m invoked!");

Ans) We should keep script.js in the head tag

1. **alert("I'm JavaScript!");**

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

**alert(`World`)**

**alert(3 +1+ 2);** // this is multiple line code and its working

Alerts are used to provide the notifications to web page here the alerts will be displayed one after the other

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

**let admin1=9, fname1=10.5;**

**fname = "Guvi";**

**lname = "geek"**

**admin1 = fname+lname;**

**alert( admin1 ); // "Guvi geek"**

**Corrected code**

let admin=9, fname2=10.5;

fname = "Guvi";

lname = " geek";

admin = fname+lname;

alert(admin);

O/P:Guvi geek

****5 Fix the below to alert sum of two numbers****

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

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

**// alert(a + b);**

//corrected code

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

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

alert(a + b);

//First number? 5

//Second number? 10

//O/P: 15

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

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

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

// alert(a + b);

//corrected code

let a2 = parseInt(prompt("First number?"));

let b2 = parseInt(prompt("Second number?"));

alert(a2 + b2);

**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”.**

**//First number? 5**

**//Second number? 10**

**//O/P: 15**

**// var a = "2" > "12";**

**// //Don't touch below this**

**// if (a) {**

**// console.log("Code is Blasted")**

**// }**

**// else**

**// {**

**// console.log("Diffused")**

**// }**

var a3 =2 > 52

//Don't touch below this

if(a3) {

console.log("Code is Blasted")

}

else

{

console.log("Diffused")

}

//O/P:Diffused

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

****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" );****

let a3 = 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" );

}

//Donot give any value in prompt then automatically the result is success

****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");

}

//O/P:You hit a Four

****Fix the 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);**

let message;

if (null || 2 || undefined)

{

message = "welcome boss";

}

else

{

message = "Go away";

}

console.log(message);

//O/P:welcome boss

****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 message2;

let lock = 0;

//Dont change any code below this

if (null || lock || undefined )

{

message2 = "Go away";

}

else

{

message = "welcome the boss";

}

console.log(message2);

//O/P:welcome the boss

**// let message;**

**// let lock = 2;**

**// //Dont change any code below this**

**// if (lock && " " || undefined )**

**// {**

**// message = "Go away";**

**// }**

**// else**

**// {**

**// message = "welcome";**

**// }**

**// console.log(message);**

let message3;

let lock2 = 0;

//Dont change any code below this

if (lock2 && " " || undefined )

{

message3 = "Go away";

}

else

{

message3 = "welcome";

}

console.log(message3);

//welcome

**Change the code to print**

**3**

**2**

**1**

**//You can change only 2 characters**

**let i = 3;**

**while (i) {**

**console.log( --i );**

**}**

let i = 3;

while (i) {

console.log(i--);

}

// 3

// 2

// 1

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

****let num = 1****

****console.log(num)****

****num += 1****

****console.log(num)****

****num += 1****

****console.log(num)****

****num += 1****

****console.log(num)****

****num += 1****

****console.log(num)****

****num += 1****

****console.log(num)****

****num += 1****

****console.log(num)****

****num += 1****

****console.log(num)****

****num += 1****

****console.log(num)****

****num += 1****

****console.log(num****

for(let num=1;num<=10;num++){

console.log(num)

}

// 1

// 2

// 3

// 4

// 5

// 6

// 7

// 8

// 9

// 10

****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)

}

// 2

// 4

// 6

// 8

// 10

// 12

// 14

// 16

// 18

// 20

****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!`);

}

// Wrapped teddy bear and added a bow!

// Wrapped drone and added a bow!

// Wrapped doll and added a bow!

**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);

O/P:hi

Explanation: if(0) is always false but if(string) is executed except when the string is empty

**//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 i2 = 1; i2 < 11; i2--) {

new\_string += numsArr[i2]

}

console.log(new\_string);

//O/P:1234567891011

**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 = "";

for (var i3 = 0; i3 < 11; i3++) {

new\_string += numsArr[i3] + ","

}

console.log(new\_string.slice(0,-1));

//O/P:1,2,3,4,5,6,7,8,9,10,11

**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 ="";

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

for (var i = 10; i >= 0; i-- ) {

new\_string += numsArr[i] + " "

}

console.log(new\_string.trim());

//O/P: 11 10 9 8 7 6 5 4 3 2 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)**

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.splice(i,1,"even")

}

}

console.log(numsArr);

//O/P:[ 1, 'even', 3, 'even', 5, 'even', 7, 'even', 9, 'even', 11 ]

**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 <=10; i++) {

sum += numsArr[i]

}

console.log(sum);

//O/P:66

**Write a code to add the even numbers and subract the odd numbers**

**Output: 94**

**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);

O/P:94

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

**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);**

var 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)

//O/P: 3

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

**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;

let myFunc = num => Number(num);

var a = Array.from(String(n), myFunc);

console.log(add(n));

function add(n)

{

let sum = 0;

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

sum+=a[i]

}

return sum;

}

//O/P:6

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

**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;**

**})();**

(function(arr) {

let sum = 0;

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

sum += arr[i];

}

console.log(sum);

return sum;

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

//O/P:38

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

**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 <= arr.length; i++) {

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

}

}

ano()

//O/P:Guvi

//Geek

//Zen

//Fullstack

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

**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=>{

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

if(num%i==0)

{

return false;

}

else if(num==1){

return false

}

else{

return true;

}

}

});

console.log(myPrime);

//O/P:[ 3, 5 ]