**TASK-6**

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

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

let admin=9, fname=10.5;

fname = "Guvi";

lname = "geek"

admin = `${fname} ${lname}`;

alert(admin); [//Prints](file:///\\Prints) “Guvi Geek”

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

let fname=10.5;

fname = "Guvi";

lname = "geek"

let fullName = `${fname} ${lname}`;

alert( `hello ${fullName}` ); [//Prints](file:///\\Prints) “hello Guvi geek”

1. **Fix the below to alert sum of two numbers**

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

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

alert(a + b);

1. **If you run the below script 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")**

**}**

Explanation: If we run the above snippet we get Code is Blasted because in the condition the variables provided are strings, they are not integers to satisfy the condition of greater than (>).

To get Diffused:

var a = 2 > 12;

//Don't touch below this

if (a) {

console.log("Code is Blasted")

}

else

{

console.log("Diffused")

}

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

let a = parseInt(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" );

}

1. **How to get the correct score in console.**

let value = parseInt(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(value);

}

1. **Fix the code to welcome the boss**

let message;

let lock = '';

//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**

let i = 3;

let diff=3;

while (i--)

{

console.log(diff--);

}

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

let n = 10;

for (let i=1; i<11; i++){

console.log(i);

}

1. **Change the code to print even numbers**

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

console.log(num)

}

**PART-2: Find the culprits and nail them — debugging javascript loops**

1. **Change the code to print all the gifts**

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

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

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

}

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 = 0; i < 11; 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 += [i] + " "

}

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

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] ="even";

}

}

console.log(numsArr);

1. **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 === 1 ){

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];

let sum= 0;

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

sum += numsArr[i];

}

console.log(sum);

1. **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<11; i++) {

if(numsArr[i]%2===0){

sum += numsArr[i];

}

}

console.log(sum);

1. **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!==1){

sum += numsArr[i]

}

else{

sum -= numsArr[i]

}

}

console.log(sum);

1. **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])

}

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="";

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

var inner\_array = numsArr[i];

for(var j = 0 ; j < inner\_array.length;j++ ) {

str\_all = inner\_array[j]

console.log(str\_all);

}}

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

1. **Fix the code to get the largest of three.**

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(6,2,3);

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

let n = 1234;

let a = n.toString();

let b = a.split("");

function add(b)

{

let sum = 0;

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

sum+=parseInt(b[i])

}

return parseInt(sum);

}

console.log(add(b));

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

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

let sum = 0;

let total = (function() {

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

sum += arr[i];

}

return sum;

})

console.log(total(sum));

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

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();

1. **Fix the code to sum the number in that array**

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

let sum = (a, b) => a + b

sum = num.reduce(sum)

console.log(sum);

1. **print all odd numbers in an array using IIFE function**

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.**

(function(str){

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

console.log(str1);

})("abcd")

1. **Sum of odd numbers in an array**

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;},0);

console.log(s);

1. **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”}**

**]**

var array = [

[

["firstname", "vasanth"],

["lastname", "Raje"],

["age", 24],

["role", "JSWizard"],

],

[

["firstname", "Sri"],

["lastname", "Devi"],

["age", 28],

["role", "Coder"],

],

];

var final = [];

let i = 0;

while (i< array.length) {

var outer\_remove = array.shift();

var 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)

1. **Fix the code to remove duplicates.**

var res = function(arr){

var newArr = [];

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

{

if(newArr.indexOf(arr[i]) == -1)

{

newArr.push(arr[i]);

}

}

console.log(newArr)

}

res(['guvi','geek','guvi','duplicate','geeK', 'guvi']);