# **GUVI: Zen Class — Part 1**: **Find the culprits and nail them - debugging javascript**

**1.Find the culprit and Fix.html.**

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

Sol:

|  |
| --- |
| <!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!”);

Sol:

|  |
| --- |
| HTML  <!DOCTYPE html>  <html>  <body>  <script src="script.js"></script>    </body>  </html>  JS  alert("I’m invoked!"); |

**3.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"

**Sol:**

|  |
| --- |
| **HTML**  <!DOCTYPE html>  <html>  <body>  <script src="script.js"></script>  </body>  </html>  **CSS**  let fname = "Guvi";  let lname = "geek";  admin = fname+" "+lname;  alert( admin ); // "Guvi geek" |

**4.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}' );

**Sol:**

|  |
| --- |
| **HTML**  <!DOCTYPE html>  <html>  <body>  <script src="script.js"></script>  </body>  </html>  **CSS**  let fname = "Guvi";  let lname = "geek";  let name = fname+" "+lname;  alert("hello"+" "+name); |

**5.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);

**Sol:**

|  |
| --- |
| **HTML**  <!DOCTYPE html>  <html>  <body>  <script src="script.js"></script>  </body>  </html>  **CSS**  let a = prompt("First number?");  let b = prompt("Second number?");  alert(+a + +b); |

# **GUVI: Zen Class — Part 2 : Find the culprits and nail them — debugging javascript loops:**

**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);

**Sol:**

|  |
| --- |
| var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var newstr = [];    for (var i = 1; i <= 11; i++) {  newstr.push(i);    } console.log(newstr.map(e=>""+ e).join("")); |

**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);

**Sol:**

|  |
| --- |
| var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var newstr = [];  for (var i = 1; i <= 11; i++) {  newstr.push(i);  }  console.log(newstr.map(e=>""+ e).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 new\_string = “”;  
   
for (var i = 11; i > 0; i — ) {  
 new\_string += numsArr[i] + “ “   
}  
console.log(new\_string);

**Sol:**

|  |
| --- |
| var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var newstr = [];  for (var i = 11; i >= 1; i--) {  newstr.push(i);  }  console.log(newstr.map(e=>""+ e).join(" ")); |

**4.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);

**Sol:**

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

**5.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);

**Sol:**

|  |
| --- |
| var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];  var res = numsArr.reduce((a,b)=> a + b);  console.log(res) |

# **GUVI: Zen Class — 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);

**Sol:**

|  |
| --- |
| let aa =function (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); |

**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;  
})();

**Sol:**

|  |
| --- |
| let arr=[9,8,5,6,4,3,2,1]  let add= (function(arr) {  return arr.reduce((a, b) => a + b);  })(arr);  console.log(add) |

**3.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();

**Sol:**

|  |
| --- |
| let str =["guvi", "geek", "zen", "fullstack"];  let title=function (str){  return str.map(w => w[0].toUpperCase() + w.substr(1).toLowerCase());  }  console.log(title(str)); |

**4.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);

**Sol:**

|  |
| --- |
| let num = [10, 20, 30, 40,50,60,70,80,90,100]  let sum = (a, b) =>a + b;  sum = num.reduce(sum)  console.log(sum); |

**5.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);})();

**Sol:**

|  |
| --- |
| var arr = [1, 2, 3, 6, 8, 6, 1, 9, 10, 12, 13];  var k = 3;  const rotateArray1 = function(arr, k) {    for (let i = 0; i < k; i++) {  arr.unshift(arr.pop(k));  }  return arr;  }  console.log(rotateArray1(arr,k)); |