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);

Correct code :

let 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(1, 5, 3); // Output = 5

**output : 5**

1. **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;

}

Correct code :

let n = 123;

function add(n) {

    let sum = 0;

    while(n != 0){

        sum += n % 10;

        n = parseInt(n / 10);

    }

    return sum;

}

console.log(add(n)); // Output = 6

**output : 6**

1. **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;

})();

correct 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;

})(); // Output = 38

**output : 38**

1. **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();

correct code :

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

var ano = function (arr) {

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

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

  }

};

ano(arr);

**output : Guvi Geek Zen Fullstack**

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);

correct code :

const newArray = [1, 3, 2, 5, 10];

const myPrime = newArray.filter((num) => {

    let factors = [];

  for (let i = 2; i <= num; i++) {

    if (num % i === 0) {

      factors.push(i);

    }

  }

  if(factors.length <= 2 && factors.length !== 0){return num};

});

console.log(myPrime); // Output = [3, 2, 5]

**output : [3, 2, 5]**

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);

correct code :

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

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

console.log(sum); // Output = 550

**output : 550**

1. **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);})();

correct code :

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

var k = 3;

(function () {

    let out = arr.slice();

  for (var i = 0; i < k; i++) {

      let ele = out.shift();

      out.push(ele);

  }

  console.log(out);

})();

**Output : [6, 8, 6, 1, 9, 10, 12, 13, 1, 2, 3]**

1. **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));

}

})();

correct code :

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));

  }

})();

**output : Guvi Geek Zen Fullstack**

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]);

}}

})();

correct 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]);

    }

  }

})();

**output : 1 3 5 7 79 7 9**

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

Code:

(function(str){

str1 = str.split(“ “).reverse().join(“”);

console.log(str1);

})(“abcd”)

Correct code :

(function (str) {

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

  console.log(str1);

})("abcd");

**Output : dcba**

1. **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”])

correct code :

var res = function (arr) {

    let 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"]);

**Output : ["guvi", "geek", "duplicate", "geeK"]**

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”}  
]

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();

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)}

correct 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();

    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);

**Output : [{firstname: "vasanth", lastname: "Raje", age: 24, role: "JSWizard"}, {firstname: "Sri", lastname: "Devi", age: 28, role: "Coder"}]**

1. **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);

Correct code :

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

let sum = 0;

as.map(num => num % 2 !== 0 ? sum += num : null);

console.log(sum);

**Output : 6**

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

1. 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”);

correctcode **:**

let aa = (data) => {

  var a = data;

  var l = "";

  for (let i = 0; i < a.length - 1; i = i + 2) {

    var b = a[i];

    var s = a[i + 1];

    l += s;

    l += b;

  }

  if (a.length % 2 != 0) {

    l += a[a.length - 1];

  }

  console.log(l);

};

aa("1234");

**Output : “2143”**