**GUVI: Zen Class — Part 3: Find the culprits and nail them — debugging javascript**

**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);

Ans :

let f,s,t;

const 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(1,2,3);

output : 3

**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;  
}

Answer :

let n = 123;

function add(n)

{

let sum = 10;

let num=n.toString()

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

  let sum1=parseInt(num[i])

 sum+=sum1;

 }

 return sum;

}

console.log(add(n));

output : 16

— — — — — — — — — — — — — — — — — — — — — — — — —

**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:

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

— — — — — — — — — — — — — — — — — — — — — — — — —

**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();

Answer:

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

var ano = function(arro) {

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

  console.log(arr[2].toUpperCase());

  }

 }

 ano(arr);

output : ZEN

**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 === 0)

  return false;

 }

 return num!==1;

});

console.log(myPrime);

output : [3, 2, 5]

**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 = (a, b) =>a + b;

const sum1 = num.reduce(sum)

console.log(sum1);

output : 550

**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);})();

Answer :

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

var k = 3;

k = arr.length % k;

(function() {

 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);})();

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

**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));  
 }  
})();

Answer:

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

(function() {

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

  console.log(arr[0].toUpperCase());

  }

 })();

output : ZEN

**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 === 0)

  console.log(arr[i]);

 }

 })();

Output : 2

2

6

4

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 === 0)

  console.log(arr[i]);

 }

 })();

Output : 2

2

6

4

Answer :

var arr = [1, 2, 3, 5, 7, 79, 7, 2, 6, 9, 4];

(function() {

  let even="";

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

  if (arr[i] % 2 === 0)

   even+=" "+arr[i];

 }console.log(even.trim())

 })();

Output : 2 2 6 4

**Fix the code to reverse.**

Code:

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

Answer :

(function(str){

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

  console.log(str1);

 })("abcd")

Output : dcba

**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”])

Answer :

var res = function(arr){

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: (3) ['guvi', 'geek', 'duplicate']

**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)}

Answer :

 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 newobject={};

 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]

 newobject[key]=value;

 }

 final.push(newobject)

 }console.log(final)

Output :

1. *(2) [{…}, {…}]*
   1. **0**: {firstname: 'vasanth', lastname: 'Raje', age: 24, role: 'JSWizard'}
   2. **1**: {firstname: 'Sri', lastname: 'Devi', age: 28, role: 'Coder'}

Answer :

var array = [[["firstname","vasanth"],["lastname","Raje"],["age",24],["role","JSWizard"]],[["firstname","Sri"],["lastname","Devi"],["age",28],["role", "Coder"]]];

 const obj=array.map((val)=>Object.fromEntries(val))

 console.log(obj)

1. output : *(2) [{…}, {…}]*
   1. **0**: {firstname: 'vasanth', lastname: 'Raje', age: 24, role: 'JSWizard'}
   2. **1**: {firstname: 'Sri', lastname: 'Devi', age: 28, role: 'Coder'}

**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);

Answer :

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

var s=as.reduce((acc,val,idx)=>{

if(val%2!==0){

  return val+acc;

}

else

{

  return acc;

}

},0);

console.log(s);

output : 6

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

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”);

Answer :

var l="";

var aa = data=>{

var a=data;

 for(i=0;i<a.length-1;i++){

  var s=a[i+1]

  var b=a[i]

  l+=s

  l+=b

  i=i+1

  }

   console.log(l)

 }

 aa("1234");

output : 2143