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

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| **Question** | **Answer** |
| **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); | aa = (f,s,t) => {  // variable f s t already declared  //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); |
| Output :  3 |
| **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;  })(); | const arr = [9,8,5,6,4,3,2,1];  //(function() {  (function(arr) {  let sum = 0;  //for (var i = 0; i <= arr.length; i++);{  for (var i = 0; i < arr.length; i++){  sum += arr[i];  }  console.log(sum);  return sum;  //})();  })(arr); |
|  | Output :  38 |
| **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;  } | //let n = 123;  let n = '123';  console.log(add(n));  function add(n)  {  //let sum = 10;  let sum = 0;  for(var i=0;i<n.length;i++){  //sum+=n[i]  sum+=parseInt(n[i]);  }  return sum;  } |
| Output :  6 |
| **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(); | //var arr = ["guvi", "geek", "zen", "fullstack"];  var arro = ["guvi", "geek", "zen", "fullstack"];  var ano = function(arro) {  //for (var i = 0; i <= arro.length; i++) {  for (var i = 0; i < arro.length; i++) {  console.log(arro[i][0].toUpperCase() + arro[i].substr(1));  }  }  //ano();  ano(arro); |
| Output :  Guvi  Geek  Zen  Fullstack |
| **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);** | const newArray=[1,3,2,5,10];  const myPrime=newArray.filter(num=>{  // **for(let i=2;i<=num;i++){**  for(let i=2;i<num;i++){  if(num%i===0)  {  //return true;  return false;  }  }  // **return num===1;**  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);** | **const num = [10, 20, 30, 40,50,60,70,80,90,100]**  **const sum = (a, b) =>**  **a + b**  **// sum if already defined**  **//const sum = num.reduce(sum)**  **//console.log(sum);**  **const sumofArray = num.reduce(sum)**  **console.log(sumofArray);** |
| 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);})();** | var arr = [1, 2, 3, 6, 8, 6, 1, 9, 10, 12, 13];  var k = 3;  //k = arr.length % k;  //(function() {  //arr = {};  (function(arr) {  out = arr.slice(k + 1, arr.length);  var count = out.length;  //for (var i = 0; i < k + 1 ; i++) {  for (var i = 0; i < k ; i++) {  out[count] = arr[i];  count += 1;  }  console.log(out);  //})();  })(arr); |
|  | Output :  [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));**  **}**  **})();** | var arr = ["guvi","geek","zen","fullstack"];  //(function() {  (function(arr) {  for (var i = 0; i < arr.length; i++) {  //console.log(arr[0][i].toUpperCase() + arr[i].substr(1));  console.log(arr[i][0].toUpperCase() + arr[i].substr(1));  }  //})();  })(arr); |
| Output :  Guvi  Geek  Zen  Fullstack |
| **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]);  }}  })(); | var arr = [1, 2, 3, 5, 7, 79, 7, 2, 6, 9, 4];  //(function() {  (function(arr) {  for (var i = 0; i < arr.length; i++) {  //if (arr[i] % 2 === 0) {  if (arr[i] % 2 === 1) {  console.log(arr[i]);  }}  //})();  })(arr); |
| Output :  1  3  5  7  79  7  9 |
| **Fix the code to reverse.**  **Code:**  **(function(str){**  **str1 = str.split(" ").reverse().join("");**  **console.log(str1);**  **})("abcd")** | **(function(str){**  **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"]);** | **var res = function(arr){**  **newArr = [];**  **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"]);** |
| Output :  **(["guvi","geek","duplicate","geeK"]** |
| **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)**  **}** | var array =[  [  ["firstname","vasanth"],  ["lastname","Raje"],  ["age",24],  ["role","JSWizard"]  ],  [  ["firstname","Sri"],  ["lastname","Devi"],  ["age",28],  ["role", "Coder"]  ]  ];  var final=[];  //length of array is 2 at beginning  while(array.length!=0)  {  var new\_object={};  //The shift() method removes the first element from an array and returns that removed element. This method changes the length of the array.  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)  }  console.log(final) |
| Output :  **[ {firstName: “Vasanth”, lastName: “Raja”, age: 24, role: “JSWizard”}, {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); | 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;});  return a;},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");** | var aa = data=>{  var a=data;  var l='';  for(var 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"); |
|  | Output :  2143 |