**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);

aa = (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);

**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;

console.log(add(n));

function add(n)

{

let sum = 0; // initialize sum to 0

let str\_n = n.toString(); // convert number to string to iterate over digits

for(var i=0;i<str\_n.length;i++){

sum+= parseInt(str\_n[i]); // add each digit to sum

}

return sum;

}

**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() {

let sum = 0;

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

sum += arr[i];

}

console.log(sum);

return sum;

})();

**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 ano = function(arro) {

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

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

}

}

ano(arr);

**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=>{

if (num <= 1) { // exclude 1 and negative numbers

return false;

}

for(let i=2;i<=Math.sqrt(num);i++){ // check divisors up to the square root of the number

if(num%i===0) {

return false; // exclude numbers that are divisible by any number other than 1 and themselves

}

}

return true; // include only prime numbers

});

console.log(myPrime); // [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 sumFunc = (a, b) => a + b;

const sum = num.reduce(sumFunc);

console.log(sum);

**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 = k % arr.length;**

**(function() {**

**var out = arr.slice(k, arr.length).concat(arr.slice(0, k));**

**console.log(out);**

**})();**

**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() {**

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

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

**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]);**

**}}**

**})();**

**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")**

**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) {**

**var newArr = [];**

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

**if (!newArr.includes(arr[i])) {**

**newArr.push(arr[i]);**

**}**

**}**

**console.log(newArr);**

**};**

**res(["guvi", "geek", "guvi", "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","Raja"],["age",24],["role","JSWizard"]],**

**[["firstname","Sri"],["lastname","Devi"],["age",28],["role", "Coder"]]**

**];**

**var final=[];**

**while(array.length!=0) {**

**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);**

**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”);

**aa = data => {**

**var a = data.split('');**

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

**var temp = a[i];**

**a[i] = a[i + 1];**

**a[i + 1] = temp;**

**}**

**console.log(a.join(''));**

**}**

**aa("1234");**