

<https://medium.com/@reach2arunprakash/guvi-zen-simple-debugging-tasks-adcdc2d3249d>

*** Refer above for the problem statements

Part 3: Find the culprits and nail them — debugging javascript:

Question#1 : Fix the code to get the largest of three.

Code:Solution hoisting declared let variable above

```
let f,s,t;
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);
```

Question#2: Fix the code to Sum of the digits present in the number

Code:Solution is here: Take the number and build the remainder of ten and add that. Then take the integer part of the division of the number by 10

```
let n = 123;
function add(n)
{
  let sum = 0;
  while(n){
    sum+=n%10;
    n=Math.floor(n/10);
  }
}
```

```
console.log(sum);  
}  
add(n);
```

Question#3 : Fix the code to Sum of all numbers using IIFE function

```
const arr = [9,8,5,6,4,3,2,1];  
(function()  
{  
    let sum = 0;  
    for (var i = 0; i < arr.length; i++)  
    {  
        // removed unwanted semicolon  
        sum += +arr[i];  
        // add + to get the value as a number  
    }  
    console.log(sum);  
    return sum;  
})  
();
```

Question#4 : Fix the code to gen Title caps.

```
var arr = ["guvi", "geek", "zen","fullstack"];  
var ano = function(arro) {  
    //changed arro to arr  
    for (var i = 0; i <= arr.length; i++) {  
        console.log(arr[i][0].toUpperCase() + arr[i].substr(1));  
    }  
}  
ano();
```

Question#5 : Fix the code to return the Prime numbers

```
const newArray=[1,3,2,5,10];  
const myPrime=newArray.filter(num=>{  
    for(let i=2;i<=num;i++){
```

```

    //check two condition
    if(num%i===0 && num ==i)
    {
        return true;
    }
    else if (num%i===0 && num !=i) {

        //break the for loop
        break;
    }
    return num===1;

});

console.log(myPrime);

```

Question#6 :Fix the code to sum the number in that array

// use reduce and sum

```

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

```

Question#7 : Fix the code to rotate an array by k times and return rotated array using IIFE function

```

//Removed arr={};

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);  
})();
```

Question#8 :Fix the code to gen Title caps.

```
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)); //Changed arr[0][i]  
  }  
})();
```

Question#9 : Print all odd numbers in an array using IIFE function.

```
var arr = [1, 2, 3, 5, 7, 79, 7, 2, 6, 9, 4];  
(function() {  
  for (var i = 0; i < arr.length; i++) {  
  
    //Changed !==0  
    if (arr[i] % 2 !== 0) {  
      console.log(arr[i]);  
    }  
  }  
})();
```

Question#10 : Fix the code to reverse.

```
(function(str)  
{  
  //removed space between split(" ")  
  str1 = str.split("").reverse().join("");  
  console.log(str1);  
})  
("abcd");
```

Question#11 : Fix the code to remove duplicates.

```
//Question#11 : Fix the code to remove duplicates.

//place the for loop after newArr[];
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"]);
```

Question#12 : 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"}]

```
var array
=[[[{"firstname": "vasanth", "lastname": "Raje", "age": 24, "role": "JSWizard"}], [{"f
irstname": "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];
        var new_object=value+key;
    }
    final.push(new_object)
```

```
}  
  
console.log(final);
```

Question#13 : Fix the code to give the below output:

```
var as=[12,34,5,6,2,56,6,2,1];  
var s=as.reduce(function(a,c)  
{  
    if(a%2 !==0 && c%2 !==0)  
    { return a+c; }  
    else if(a%2 !==0)  
    { return a;  
  
    }else  
    if(c%2 !==0)  
    { return c; }  
    return 0;  
}); console.log(s);
```

Question#14 : Fix the code to give the below output:

Fix the code to give the below output:

Swap the odd and even digits

```
aa = data=>{  
    var a=data;  
  
    //move this to above for loop  
    var l='';  
  
    for(i=0;i<a.length-1;i++){  
        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");
```