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

1. Fix the code to get the largest of three.

```
Code:
```

```
<mark>aa</mark> = (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);
Solution: Incorrect are highlight and correct code is written
below:
var aa = (f,s,t) \Rightarrow {
   //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);
```

2. 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;
}</pre>
```

```
Solution: Incorrect are highlight and correct code is written
below:

let n = 123;
let num = n.toString().split("");
console.log(add(num));

function add(n)
{
    let sum = 10;
    for(var i=0;i<n.length;i++){
        sum+= parseInt(n[i])
    }
    return sum;
}</pre>
```

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;
})();</pre>
```

```
Solution: Incorrect are highlight and correct code is written
below:

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;
})();</pre>
```

4. 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();</pre>
```

```
Solution: Incorrect are highlight and correct code is written below:
```

```
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);</pre>
```

5. Fix the code to return the Prime numbers

```
Code:
```

const newArray=[1,3,2,5,10];

6. Fix the code to sum the number in that array

Code:

}

return true;

console.log(myPrime);

}

});

```
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);

Solution: Incorrect are highlight and correct code is written
below:

const num = [10, 20, 30, 40,50,60,70,80,90,100]
var sum = (a, b) => {
  return (a + b);
}

sum = num.reduce(sum)
console.log(sum);
```

7. 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);}) ();</pre>
```

Solution: Incorrect are highlight and correct code is written below:

```
var arr = [1, 2, 3, 6, 8, 6, 1, 9, 10, 12, 13];
var k = 3;
k = arr.length % k;
(function () {
    var 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);
})();</pre>
```

8. 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));
  }
})();

Solution: Incorrect are highlight and correct code is written below:

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));
  }
})();</pre>
```

9. 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]);
} }
})();
Solution: Incorrect are highlight and correct code is written
below:
var arr = [1, 2, 3, 5, 7, 79, 7, 2, 6, 9, 4];
(function () {
for (var i = 0; i < arr.length; i++) {</pre>
if (arr[i] % 2 !== 0) {
console.log(arr[i]);
}}
})();
```

10. Fix the code to reverse.

```
Code:
```

```
(function(str){
 str1 = str.split(" ").reverse().join("");
console.log(str1);
}) ("abcd")
Solution: Incorrect are highlight and correct code is written
below:
(function(str){
   var str1 = str.split("").reverse().join("");
   console.log(str1);
  })("abcd")
```

11. 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"])</pre>
```

```
Solution: Incorrect are highlight and correct code is written
below:

var res = function (arr) {
    var 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"])</pre>
```

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"}
```

Code:

```
var array
=[["firstname","vasanth"],["lastname","Raje"],["age",24],["role","
    JSWizard"]],[["firstname","Sri"],["lastname","Devi"],["age",28],["r
    ole", "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)
}
```

```
Solution: Incorrect are highlight and correct code is written below:
```

```
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)
}
```

13. 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);
```

```
Solution: Incorrect are highlight and correct code is written below:
```

```
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);
```

14. 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");</pre>
```

```
Solution: Incorrect are highlight and correct code is written
below:
var aa = data => {
   var a = data;
   var 1 = "";
   for (var i = 0; i < a.length - 1; i++) {</pre>
       var s = a[i + 1]
       var b = a[i]
       1 += s
       1 += b
       i = i + 1
   if ((a.length % 2) != 0) {
       1 += a[a.length - 1]
    }
   console.log(1);
}
aa("1234");
```