```
Question 1: Write a code
a. Square of a number
function square(n)
{
  let squ = n * n;
  return squ;
}
console.log(square(9));
b. Swapping two numbers
let a = 10;
let b = 20;
let temp;
temp = a;
a =b;
b = temp;
console.log(a,b);
c. Starting from the existing friends variable below, change the element that is currently "Mari"
to "Munnabai".
Let friends = ["Mari", "MaryJane", "CaptianAmerica", "Munnabai", "Jeff", "AAK chandran"];
function friends(arr)
{
  for(let i =0;i<arr.length;i++)
  {
     if(arr[i] == "Mari")
       arr[i] = "Munnabai";
```

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}
  return arr;
console.log(friends(["Mari","MaryJane","CaptianAmerica","Munnabai","Jeff","AAK
chandran"]));
d. Print the content of the input variable.
var input = [
["0001", "Roman Alamsyah", "Bandar Lampung", "21/05/1989", "Membaca"],
["0002", "Dika Sembiring", "Medan", "10/10/1992", "Bermain Gitar"],
["0003", "Winona", "Ambon", "25/12/1965"],
["0004", "Bintang Senjaya", "Martapura", "6/4/1970", "Berkebun"]
];
for(let i =0;i<input.length;i++)
{
  for(let j =0;j<input[i].length;j++)</pre>
     let output = input[i][j];
     console.log(output);
  }
  console.log( );
}
e. Write a loop that makes seven calls to console.log to output the following triangle.
let n = 7;
let s ="";
for(let i =0;i<n; i++)
  for(let j = 0; j < = i; j + +)
  {
```

```
s = s + "#";
  s = s+"\n";
}
console.log(s);
Question 2 : Debugging javascript
a. Fix the below to alert Guvi geek.
let admin=9, fname=10.5;
fname = "Guvi";
lname = "geek"
admin = fname+lname;
alert( admin ); // "Guvi geek"
Answer:
let admin=9, fname=10.5;
fname = "Guvi";
lname = "geek"
admin = fname+" " + lname;
alert( admin ); // "Guvi geek"
b. Fix the below to alert Guvi geek.
let fname=10.5;
fname = "Guvi";
lname = "geek"
let name = fname+lname;
alert( 'hello ${name}' );
Answer:
let fname = 10.5;
fname = "Guvi";
lname = "geek"
let name = fname + " " + lname;;
alert( `hello ${name}`);
```

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c. Fix the below to alert the sum of two numbers.
let a = prompt("First number?");
let b = prompt("Second number?");
alert(a + b);
Answer:
let a = parseInt(prompt("First number?"));
let b = parseInt(prompt("Second number?"));
alert(a + b);
d. If you run the below code you will get code is blasted. Change this to diffused.
var a = "2" > "12";
if (a) {
 console.log("Code is Blasted")
}
else
 console.log("Diffused")
}
Answer:
var a = 2 > 12;
if (a) {
 console.log("Code is Blasted");
else
 console.log("Diffused");
```

e. How to get the correct score in console.

```
let value = prompt('How many runs you scored in this ball');
if (value === 4) {
```

```
console.log("You hit a Four");
} else if (value === 6) {
    console.log("You hit a Six");
} else {
    console.log("I couldn't figure out");
}
Answer:
let value = parseInt(prompt('How many runs you scored in this ball'));
if (value === 4) {
   console.log("You hit a Four");
} else if (value === 6) {
   console.log("You hit a Six");
    console.log("I couldn't figure out");
Question 3: Find the culprit and debugging the javascript.
a. Write a code to print the numbers in array.
Output: 1234567891011
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var new string = "";
for (var i = 1; i < 11; i--) {
new_string += numsArr[i]
}
console.log(new_string);
Answer:
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var new_string = " ";
for (var i = 0; i < 11; i++) {
new_string += numsArr[i];
console.log(new_string);
```

b. Write a code to print the numbers in array.

console.log(new_string);

```
Output: 1,2,3,4,5,6,7,8,9,10,11
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var new_string = " ";
for (var i = 1; i < 11; i++) {
new_string += numsArr[i] + , }
console.log(new_string);
Answer:
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var new_string = " ";
let d;
for (var i = 0; i < 11; i++) {
new_string += numsArr[i] + ",";
d = new\_string.slice(0,-1);
console.log(d);
c. Write a code to print from last to first with spaces (Make sure there is no space after the last
element 1)
Output: 11 10 9 8 7 6 5 4 3 2 1
var new string = "";
for (var i = 11; i > 0; i - ) {
new string += numsArr[i] + " " }
console.log(new_string);
Answer:
var new_string = " ";
let numsArr = [1,2,3,4,5,6,7,8,9,10,11];
for (var i = 10; i >= 0; i--) {
new_string += numsArr[i] + " ";
```

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d. Write a code to replace the array value — If the number is even, replace it with 'even'.
Output: [1, "even", 3, "even", 5, "even", 7, "even", 9, "even", ... ]
var numsArr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
for (var i = 0; i <= 10; i++) {
if(numsArr[i] \%2 == 0)
{
numsArr[i] = odd
}
}
console.log(numsArr);
Answer:
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
for (var i = 0; i <= 10; i++) {
if(numsArr[i] \%2 == 0)
  numsArr[i] = "even";
console.log(numsArr);
e. Write a code to replace the array value — If the index is even, replace it with 'even'.
Output: [ "even", 2, "even", 4, "even", 6, "even", 8, "even", 10, ... ]
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
for (var i = 0; i <= 10; i++) {
if(numsArr[i] \%2 == 0)
numsArr[i] = even
}
console.log(numsArr);
```

Answer:

Answer:

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
for (var i = 0; i <=10; i++) {
    if(i % 2 == 0)
    {
        numsArr[i] = "even";
    }
}
console.log(numsArr);</pre>
```

Question 4: Find the culprits and nail them in javascript.

a. 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; }
```

```
function add(n)
{
    n = n.split("");
    let sum = 0;
    let d;
    for(var i=0;i<n.length;i++){
        d = parseInt(n[i]);
        sum = sum + d;
    }
    return sum;
}
console.log(add("123"));</pre>
```

b. Fix the code to Sum of all numbers using IIFE function

ano();

```
Code:
const arr = [9,8,5,6,4,3,2,1];
(function() {
let sum = 0;
for (var i = 0; i \le arr.length; i++);{
sum += arr[i];
}
console.log(sum);
return sum;
})();
Answer:
const arr = [9,8,7,6,5,4,3,2,1];
let sum =0;
(function() {
for (var i = 0; i < arr.length; i++){}
 sum += arr[i];
 console.log(sum);
 return sum;
})();
c. Fix the code to gen Title caps.
Code:
var arr = ["guvi", "geek", "zen", "fullstack"];
var ano = function(arro) {
for (var i = 0; i \le arro.length; i++) {
console.log(arro[i][0].toUpperCase() + arro[i].substr(1));
}
```

Answer:

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

d. 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]);
    }}
})();</pre>
```

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

e. 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")
```