1. **simple programs to do for variables**
2. **how to get the value of the variable myvar as output**

**code:**

var myvar= 1;

console.log(myvar);

**output: 1**

1. **Declare variables to store your first name, last name, marital status, country and age in a single line**

**Code:**

var firstName = "John",

lastName = "Doe",

maritalStatus = "single",

country="india",

age="22"

1. **Simple programs to do for operators**
2. **Square of a number**

**Code:**

var x=7;

var square=Math.pow(x,2);

console.log(square);

1. **Addition of 3 numbers**

**Code:**

var x=5;

var y=3;

var z=10;

var addition=x+y+z;

console.log(addition)

1. **Celsius to Fahrenheit conversion**

**Code:** var cel=40;

var fah=(cel\*1.8)+32;

console.log(fah)

1. **Calculate simple interest**
2. **Code:**

var p, t, r, SI;

p = 15;

t = 12;

r = 12;

SI = (p \* t \* r) / 100;

console.log(SI)

1. **Area of triangle**

**Code**:

const side1 = 3;

const side2 = 4;

const side3 = 5;

const s = (side1 + side2 + side3) / 2;

const areaValue = Math.sqrt(

s \* (s - side1) \* (s - side2) \* (s - side3));

console.log(areaValue);

1. **Write loop that makes seven cells to console.log to output the following triangle**

**Code:**

let traingle =''

for(let i=0;i<7;i++){

traingle+="#";

console.log(traingle)

}

1. **Write a code to print the numbers in the array**

**Code:**

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);

**Output: 1234567891011**

1. **Fix the below to alert hello Guvi geek**

fix.html

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

**script.js**

let fname=10.5;   
fname = "Guvi";  
lname = "geek"let name = fname+lname;alert( 'hello ${name}' );

**Answer:**

**Script.js**

let fname=10.5;

fname = "Guvi";

lname = "geek"

let name = fname+" "+lname;

alert( `hello ${name}`);

1. **Fix the below to alert**Guvi geek

**fix.html**

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

**script.js**

let admin=9, fname=10.5;   
fname = "Guvi";  
lname = "geek"  
admin = fname+lname;alert( admin ); // "Guvi geek"

**Answer:**

**script.js**

let admin=9, fname=10.5;

fname = "Guvi";

lname = "geek"

admin = fname+" "+lname;

alert( admin );

1. **Change the code to print 1 to 10 in 4 lines**

**fix.html**

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

**script.js**

let num = 1  
console.log(num)  
num += 1  
console.log(num)  
num += 1  
console.log(num)  
num += 1  
console.log(num)  
num += 1  
console.log(num)  
num += 1  
console.log(num)  
num += 1  
console.log(num)  
num += 1  
console.log(num)  
num += 1  
console.log(num)  
num += 1  
console.log(num)

**Answer: script.js**

for(i=1;i<11;i++)

console.log(i)

1. **Change the code to print even numbers**

**fix.html**

<!DOCTYPE html>  
<html>  
<body>  
 <script src=”script.js”></script>  
</body>  
</html>

**script.js**

//You are allowed to modify only one character

for (let num = 2; num <= 20; num += 1) {  
 console.log(num)  
}

**Answer:**

**script.js**

for (let num = 2; num <= 20; num += 2) {

    console.log(num)

  }

1. **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;  
})();

**Answer:**

const arr = [9,8,5,6,4,3,2,1];

(function(arr) {

 let sum = 0;

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

 sum += arr[i];

 }

 console.log(sum);

 return sum;

})(arr);

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]);  
 }}  
})();

**Answer:**

var arr = [1, 2, 3, 5, 7, 79, 7, 2, 6, 9, 4];

(function(arr) {

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

 if (arr[i] % 2 !== 0) {

 console.log(arr[i]);

 }}

})(arr);