Session -6

Part -1

1. **Find the culprit**

<!DOCTYPE html>
<html>
<body>
<script>
alert("I'm JavaScript!"); //double brackets needs to be closed correctly
</script>
Whats the error in this ?
</body>
</html>

2. **Find the culprit and invoke the alert**

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

script
alert("I'm invoked!"); //same brackets need to be closed

3. **Explain the below**

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

script

alert("I'm JavaScript!"); **///displays i'm javascript as an alert message**
alert('Hello') // **this line is not having semicolon its not a problem so its displays hello**
alert(`Wor
ld`) //display wor in one line and ld in another line
alert(3 +
1
+ 2); // this is multiple line code and its working --- **it displays 6**

4. **Fix the below Guvi greek**

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script> <!--to dive correct close symbols " "-->
</body>
</html>
```

script

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

5. **Fix the below code**

```
let fname=10.5;
fname = "Guvi";
lname = "geek"
let name = fname+lname;
alert( `hello ${name}` );//starting and ending close is ``
```

6.

```
let a = parseInt(prompt("First number?")); //ASKS for a
let b = parseInt(prompt("Second number?")); //asks for b
alert(a + b); //alert the sum of numbers
```

Solution: **parseInt conversion included**

7. **If you run the below scritpt you will get “**Code is Blasted**”**
Explain Why the Code is blasted and how to diffuse it and get “Diffused**”.**

```
var a = 2 > 12;
//Don't touch below this
if (a) { //get truthy value get code is blasted
console.log("Code is Blasted")
}
else //get falsy or null values get diffused
{
console.log("Diffused")
}
```

8.

```
let a = prompt("Enter a number?"); //enter any number
//Don't modify any code below this
```

```
if (a) { // if the true value comes it prints the output
console.log( 'OMG it works for any number inc 0' );
}
else //if null or no value it prints success
{
console.log( "Success" );
}
```

9.

```
let value = prompt('How many runs you scored in this ball');
if (value == 4) { //to check with ==
console.log("You hit a Four");
} else if (value == 6) {
console.log("You hit a Six");
} else {
console.log("I couldn't figure out");
}
```

10.

```
let login = 'Employee';
let message = (login == 'Employee')  ?
(login == 'Director') ? 'Greetings' :(login == '') ? 'No login' : 'Welcome' : '';
console.log(message); //first checks it employee its true get into that then checks and print Welcome
```

11.

```
// You cant change the value of the msg
let message;
if (null || 2 || undefined )
{
message = "welcome boss"; //if we declare let mesage=value it takes as a seperat variable and works inside if only
}
else
{
message = "Go away";
}
console.log(message);
```

12.

```
let message;
let lock; //not asssigned to any value
//Dont change any code below this
if (null || lock || undefined )
{
 message = "Go away";
```

```
}
else
{
message = "welcome";
}
console.log(message);
```

13.

```
let message;
let lock = null; //change it to null
//Dont change any code below this
if (lock && " " || undefined )
{
 message = "Go away";
}
else
{
message = "welcome";
}
console.log(message);
```

14.

```
//You can change only 2 characters
let i = 3;
while (i) {
console.log( i-- ); //to give i--
}
```

15.

```
let num=1;
while(num<=10)
{
console.log(num);
num++;
}
```

16.

```
//You are allowed to modify only one character
for (let num = 2; num <= 20; num += 2) { //increment num by 2
console.log(num)
}
```

17.

```
let gifts = ["teddy bear", "drone", "doll"];
for (let i = 0; i < 3; i++) {
console.log(`Wrapped ${gifts[i]} and added a bow!`);//change aporstophe
```

to ``
}

18.

```
let countdown = 100;
while (countdown >= 0) {//countdown>=0 case only the if case executed
countdown--;
if(countdown == 0)
{
console.log("bomb triggered");
}
}
```

19.

```
var lemein = "0";
var lemeout = 0;
var msg = "";
if (lemein) {
msg += "hi";
}
if (lemeout) {
 msg += 'Hello';
}
console.log(msg); //display hi because if conidition receives a true value
```

PART-2

1. Write a code to print the numbers in the array
   Output: 1234567891011

   ANSWER

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var new_string = " ";//brackets correctly  closed
for (var i = 0; i < 11; i++) { //i incremented and i starts with 0
new_string += numsArr[i]
}
console.log(new_string);
```

2. Write a code to print the numbers in the array
   Output: 1,2,3,4,5,6,7,8,9,10,11

   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] + ',' ; //add all value with , in between
```

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

3. 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

   ANSWER

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var new_string = " "; //adds all values to the string
for (var i = 10; i >= 0; i -- ) {
if(i==0)
{
 new_string += numsArr[i];
}
else
{
new_string += numsArr[i] + " ";
}
}
console.log(new_string);
```

4. 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”, …]

   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 ) //even only
{
numsArr[i] = "even"; //xhange to even
}
}
console.log(numsArr);
```

5. 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, …]

   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 ) //even index only
{
numsArr[i] = "even"; //change  number to even
 }
```

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

6. Write a code to add all the numbers in the array
   Output: 66

   ANSWER

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var sum=0;
for (var i = 0; i <=10; i++) {
sum += numsArr[i]; //add every numbers
}
console.log(sum);
```

7. Write a code to add the even numbers only
   Output: 30

   ANSWER

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var sum=0;
for (var i = 0; i <=10; i++) {
if(numsArr[i]%2==0) //if its even only
sum += numsArr[i]; //add all the even numbers
}
console.log(sum);
```

8. Write a code to add the even numbers and subract the odd numbers
   Output: 94

   ANSWER

```
var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];
var sum=100;
for (var i = 0; i <=10; i++) {
if(numsArr[i]%2==0) //IF ITS EVEN
{
sum += numsArr[i]; //ADD TO THE SUM VARIABLE
}
else
{
sum -= numsArr[i] //else subtract
 }
}
console.log(sum);
```

9. Write a code to print inner arrays
   Output:
   Array(5) [1, 2, 3, 4, 5]
   Array(6) [6, 7, 8, 9, 10, 11]

ANSWER

```
var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];
for (var i = 0; i < numsArr.length; i++) {
console.log( numsArr[i])
}
```

10. Write a code to print elements in the inner arrays
    Output: 1234567891011

    ANSWER

```
var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];
var str_all="";
for (var i = 0; i < numsArr.length; i++) {
var inner_array = numsArr[i];
for(var j = 0 ; j < inner_array.length;j++ )//i to j
str_all +=inner_array[j];
}
console.log(str_all);
```

11. 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, ...]]

    ANSWER

```
var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];
for (var i = 0; i < numsArr.length; i++) {
var inner_array = numsArr[i];
for(var j = 0 ; j < inner_array.length;j++ )
if(j %2 == 0 )//position need to be checked so j is enough
{
 numsArr[i][j] = "even";
}
}
console.log(numsArr);
```

12. Write a code to add elements in the inner arrays based on odd or even values
    Output:
    36
    30

    ANSWER

```
var numsArr = [[1, 2, 3, 4, 5],[ 6, 7, 8, 9, 10, 11]];
var sum_odd=0;
var sum_even=0;
```

```
for (var i = 0; i < numsArr.length; i++) {
var inner_array = numsArr[i];
for(var j = 0 ; j < inner_array.length;j++ ){
if(numsArr[i][j]%2!=0)//numsArr[i][j] need to be pased
{
sum_odd += numsArr[i][j]; //ODD NUMBERS ADD
}
else
{
sum_even += numsArr[i][j]; //EVEN NUMBERS ADD
}
}
}
console.log(sum_odd);
console.log(sum_even);
```

PART – 3

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

```
aa = (f,s,t) => {
//let f,s,t; //already initialized
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**
   ANSWER

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

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

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

ANSWER

```
const arr = [9,8,5,6,4,3,2,1];
(function() {
// console.log(arr.length);
let sum = 0;
for (var i = 0; i < arr.length; i++){//no need of semicolon for (for loop) just remove that
sum += arr[i];
}
console.log(sum);
// return sum;
})();
```

4. **Fix the code to gen Title caps.**

ANSWER

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

5. **Fix the code to sum the number in that array**

ANSWER

```
const num = [10, 20, 30, 40,50,60,70,80,90,100]
const sum = (a, b) =>
a + b
//const sum = num.reduce(sum) -- reinitialized the variable sum
console.log(num.reduce(sum));//just use reduce and print
```

6. **Fix the code to rotate an array by k times and return rotated array using IIFE function**

ANSWER

```
var arr = [1, 2, 3, 6, 8, 6, 1, 9, 10, 12, 13];
var k = 3;
k = arr.length % k;
(function() {
//arr = {}; -- dont change the arr to empty if it takes array as empty keep as it is
 console.log(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);
```

7. **Fix the code to gen Title caps.**

ANSWER

```
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));//change the arr[0]
[i] to arr[i][0] because frst take the whole string then point out the index
}
})();
```

8. **print all odd numbers in an array using IIFE function**

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) { //change it to not equal to if it iss equal to it takes even
values
 console.log(arr[i]);
}}
})();
```

9. **Fix the code to reverse.**

ANSWER

```
(function(str){
str1 = str.split('').reverse().join('');//change apostrophe to ''
console.log(str1);
})("abcd")
```

10. **Fix the code to remove duplicates.**

ANSWER

```
var res = function(arr){
var newArr = []; //initalize array out of loop
for(var i=0; i < arr.length; i++){
var current = arr[i];
//console.log(current);
if(newArr.indexOf(current) < 0) {
 //console.log(current)
 newArr.push(current);
```

```
}
 }
console.log(newArr);
}
res(["guvi","geek","guvi","duplicate","geeK"])
```

11. **Sum of odd numbers in an array**

ANSWER

```
var as=[12,34,5,6,2,56,6,2,1];
var s=as.reduce((a,c) => //in reduce remove function
c%2 != 0 ? a+c : a
)
console.log(s);
```