**Question-4**

1.

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;

**})();**

**solution:**

var 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);

})();

**Explanation:**

By removing the semicolon in the for loop and removing the return type in function it works properly. Return does not print in the screen.

**Output:**

38

3.

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();

**Solution:**

**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);**

**Explanation:**

The parameter is not passed for function. Once it's passed, execute properly.

**Output:**

Guvi

Geek

Zen

Fullstack

4.

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:**

**const num = [10, 20, 30, 40,50,60,70,80,90,100]**

**const sum = (a, b) =>**

**a + b**

**const sum1 = num.reduce(sum)**

**console.log(sum1);**

**Explanation:**

Same variable sum is declared two times. Changing it can produce result correctly. And one more thing for reduce method initial value of sum has to be 0 mentioned.

**Output:**

550

5.

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:**

**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]);**

**}}**

**})();**

**Explanation:**

If statement contain even number logic arr[i]%2==0. Changed to arr[i]%2!=0. It executes the correct output.

**Output:**

1

3

5

7

79

7

9

6.

(function(str){

str1 = str.split(" ").reverse().join("");

console.log(str1);

})("abcd")

**Solution:**

**(function(str){str1 = str.split("").reverse().join("");**

**console.log(str1); })("abcd")**

**Explanation:**

In the split method, we should not give space. If we give space it cant split because input has no space.

**Output:**

Dcba