JavaScript Sample Practice Questions

1. Variables, Operators, and Conditionals

Write a program that takes a birthYear, calculates the user's current age, and then prints a message stating if they are old enough to vote (age 18 or older) or if they are a senior citizen (age 65 or older).

Code:

Output:

```
Elements Console Sources Network Performance Memory Application >> 

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| Console | C
```

2. Loops and Arrays

Create an array of numbers. Calculate the sum and average of all the numbers in the array.

Code:

```
// Q2)
const array = [1, 2, 3, 4, 5];

const sum = array.reduce((acc, cur) => {
    return acc + cur;
}, 0);

console.log(`Sum : ${sum}`);
console.log(`Average: ${sum / array.length}`);
```

Output:



3. Strings and String Operations

Reverse a String

Check for Palindrome

Count Vowels

Code:

```
const string = "wow";
let reverse = "";
for (let i = string.length - 1; i >= 0; i--) {
 reverse += string[i];
if (string == reverse) {
 console.log("Palindorme");
  console.log("Not a palindrome");
for (let i = 0; i < string.length; i++) {</pre>
   string[i] == "a" ||
   string[i] == "i" ||
   string[i] == "e" ||
    string[i] == "o" ||
   string == "u"
console.log(`No of vowels = ${count}`);
```



4. Functions and Methods

Write a function that finds and returns the longest word in a sentence.

Code:

```
const calcLongestWord = function (sentance) {
  let input = sentance.trim();
  const words = [];
  let count = 0;
  for (let i = 0; i < input.length; i++) {
    if (input[i] == " " || input[i] == "\n") {
        if (count == 0) continue;

        words.push(input.slice(i - count, i));
        count = 0;
    } else if (i == input.length - 1) {
        words.push(input.slice(i - count, i + 1));
    } else {
        count++;
    }
}

const ans = words.reduce((acc, cur) => {
        return acc.length > cur.length ? acc : cur;
}, words[0]);

console.log(words);
    return ans;
};

const ans = calcLongestWord(
    "I am Keshav Chandak From india \n I am huge cristanio fan siuuuuuuuuuu!"
);
    console.log(ans);
```

Output:

5. Putting It All Together

Create a simple to-do list manager with the following features:

- Store to-do items in an array.
- Implement functions to add, remove, and display items.
- Use a loop to continuously prompt the user for an action (add, remove, display, or quit).
- Print the list of items with their index when the user selects display.
- Exit the program when the user selects quit.

```
//Q5)
const toDOitems = [];
 const task = prompt("Enter the task");
 const removeTask = +prompt("Enter the task no you want to remove");
 let count = 1;
 const input = prompt("Enter the operation");
 if (input == "add") {
 if (input == "remove") {
 if (input == "display") {
   display();
 if (input == "quit") {
```