**Task#1:**

1. Declare two variables—username and age. Assign a string value to username and a number to age. Print both values on the webpage.

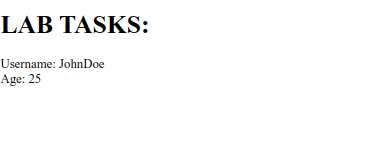
* **Index.html**

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| **<!DOCTYPE html>**  **<html lang="en">**  **<head>**  **<meta charset="UTF-8">**  **<meta name="viewport" content="width=device-width, initial-scale=1.0">**  **<title>LAB TASKS</title>**  **</head>**  **<body>**  **<h1>LAB TASKS:</h1>**  **<script src="script.js">**  **</script>**  **</body>**  **</html>** |

* **Script.js**

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| --- |
| **var username = "JohnDoe";**  **var age = 25;**  **document.writeln("Username: " + username);**  **document.writeln("Age: " + age);**  **document.writeln("<br>");** |

**Output:**



2.Create an if-else statement to check whether a number (stored in a variable num) is positive, negative, or zero. Print the result accordingly.

TASK#2:

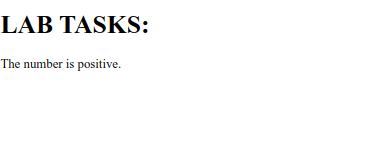
* **Index.html**

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| **<!DOCTYPE html>**  **<html lang="en">**  **<head>**  **<meta charset="UTF-8">**  **<meta name="viewport" content="width=device-width, initial-scale=1.0">**  **<title>LAB TASKS</title>**  **</head>**  **<body>**  **<h1>LAB TASKS:</h1>**  **<script src="script.js">**  **</script>**  **</body>**  **</html>** |

* **Script.js**

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| --- |
| **var num = 10; // You can change this value to test different cases**  **if (num > 0) {**  **document.writeln("The number is positive.");**  **document.writeln("<br>");**  **} else if (num < 0) {**  **document.writeln("<br>");**  **document.writeln("The number is negative.");**  **} else {**  **document.writeln("<br>");**  **document.writeln("The number is zero.");}** |

**Output:**



3.Write a for loop to calculate the sum of all numbers from 1 to 100 and display the result.

TASK#3:

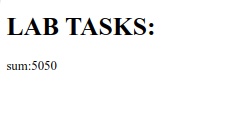
* **Index.html**

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| **<!DOCTYPE html>**  **<html lang="en">**  **<head>**  **<meta charset="UTF-8">**  **<meta name="viewport" content="width=device-width, initial-scale=1.0">**  **<title>LAB TASKS</title>**  **</head>**  **<body>**  **<h1>LAB TASKS:</h1>**  **<script src="script.js">**  **</script>**  **</body>**  **</html>** |

* **Script.js**

|  |
| --- |
| **let sum = 0;**  **for (let i = 1; i <= 100; i++) {**  **sum += i;**  **}**  **document.write("sum:",sum);** |

**Output:**



4.Write a while loop that prints the values of x from 1 to 10, where each value of x is multiplied by 2.

TASK#4:

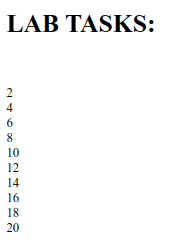
* **Index.html**

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| --- |
| **<!DOCTYPE html>**  **<html lang="en">**  **<head>**  **<meta charset="UTF-8">**  **<meta name="viewport" content="width=device-width, initial-scale=1.0">**  **<title>LAB TASKS</title>**  **</head>**  **<body>**  **<h1>LAB TASKS:</h1>**  **<script src="script.js">**  **</script>**  **</body>**  **</html>** |

* **Script.js**

|  |
| --- |
| **document.writeln("<br>");**  **var x = 1;**  **while (x <= 10) {**  **document.writeln("<br>");**  **document.writeln(x \* 2);**  **x++;**  **}** |

**Output:**



5.Create a function that calculates the average of an array of numbers.

TASK#5:

* **Index.html**

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| **<!DOCTYPE html>**  **<html lang="en">**  **<head>**  **<meta charset="UTF-8">**  **<meta name="viewport" content="width=device-width, initial-scale=1.0">**  **<title>LAB TASKS</title>**  **</head>**  **<body>**  **<h1>LAB TASKS:</h1>**  **<script src="script.js">**  **</script>**  **</body>**  **</html>** |

* **Script.js**

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| --- |
| **document.writeln("<br>");**  **document.writeln("<br>");**  **var fruits = ["Apple", "Banana", "Cherry", "Date", "Elderberry"];**  **for (var j = 0; j < fruits.length; j++) {**  **document.writeln("<br>");**  **document.writeln(fruits[j]);**  **}** |

**Output:**

