Answersheet

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No. of questions attempted: 10
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Assignment: Practical Questions
Total no. of questions: 10
Total marks: 50
Result: Not reviewed yet

Sl. No.	Question		Actions
1	**Write JavaScript code that prints all the numbers from 1 to 10 inclusive using a for loop.** for (let i = 1; i <= 10; i++) { console.log(i); }	5 marks	Marks 0
2	**Write JavaScript code that calculates the sum of all the numbers from 1 to 1000 inclusive and prints the result.** let sum = 0 for (let i = 1; i <= 1000; i++) { sum+= i } console.log(sum);	5 marks	Marks 0

3	**Write JavaScript code that finds the maximum number in an array of numbers [5, 10, 2, 8, 15] and prints the result.** 5 marks let numbers = [5, 10, 2, 8, 15] let maxnumber = Math.max(...numbers) console.log(maxnumber);	Marks 0
4	**Write JavaScript code that takes a string "hello" as input and prints the string reversed ("olleh") using a for loop.** 5 marks let str = "hello"; let reversedStr = ""; for (let i = str.length - 1; i >= 0; i--) { reversedStr += str[i]; } console.log(reversedStr); // Output: "olleh"	Marks 0
5	**Write JavaScript code that counts the number of vowels (a, e, i, o, u) in a string "javascript" and prints the result.** 5 marks let str2 = 'JavaScript' let count2 = 0 for (let i = 0; i < str2.length; i++) { if ('aeiou'.includes(str2[i])) count2++ } console.log(count2);	Marks 0
6	**Write JavaScript code that prints the Fibonacci sequence up to the 10th term. (The Fibonacci sequence is a series of numbers where each number is the sum of the two preceding ones, starting with 0 and 1.)** 5 marks let n = 10; // Print Fibonacci sequence up to the 10th term let a = 0, b = 1; console.log(a); // Print the first number for (let i = 1; i < n; i++) { let nextTerm = a + b; // Calculate the next Fibonacci number console.log(nextTerm); // Print the next term a = b; // Update a b = nextTerm; // Update b }	Marks 0

7	**Write JavaScript code that checks whether a given number is a prime number or not. Print "Prime" if it's a prime number, otherwise print "Not Prime".** 5 marks let number = 7; // yahan apna number likho if (number <= 1) { console.log("Not Prime"); } else { let isPrime = true; for (let i = 2; i <= Math.sqrt(number); i++) { if (number % i === 0) { isPrime = false; break; } } if (isPrime) { console.log("Prime"); } else { console.log("Not Prime"); } }	Marks 0
8	**Write JavaScript code that generates a random password of length 8 consisting of uppercase letters, lowercase letters, and numbers. (Hint: You can use the Math.random() function to generate random numbers and convert them to characters.)** 5 marks let characters = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789"; let password = ""; for (let i = 0; i < 8; i++) { let randomIndex = Math.floor(Math.random() * characters.length); password += characters[randomIndex]; } console.log("Random Password:", password);	Marks 0
9	**Write JavaScript code that prints all the prime numbers between 1 and 100.** 5 marks for (let num = 2; num <= 100; num++) { let isPrime = true; for (let i = 2; i <= Math.sqrt(num); i++) { if (num % i === 0) { isPrime = false; break; } } if (isPrime) { console.log(num); } }	Marks 0
10	**Write JavaScript code that calculates the factorial of a given number. (The factorial of a non-negative integer n is the product of all positive integers less than or equal to n.)** 5 marks let number = 5; // Yahan apna number daalein let factorial = 1; for (let i = 1; i <= number; i++) { factorial *= i; } console.log("Factorial of " + number + " is: " + factorial);	Marks 0