

JS

Assignment 2

- 1. Write a function that uses a 'for' loop to print numbers from 1 to 10. If the number is divisible by 3, skip printing the number. (0.5 Grade)
 Output: 1, 2, 4, 5, 7, 8, 10
- 2. Write a function that uses a `while` loop to calculate the sum of numbers from 1 to 100. (0.5 Grade)
- 3. Implement a function using `forEach` to iterate over an array and print each element. (0.5 Grade)
- 4. Explain the difference between 'forEach' and 'for...of' loops in JavaScript. (0.5 Grade)
- 5. Write a function that destructures an object to extract values and returns a formatted string. $(0.5\ Grade)$

const person = {name: 'John', age: 25 };

Output: 'John is 25 years old'

- 6. Use the spread operator to merge two arrays, then return the merged array. (0.5 Grade)
- 7. Write a function that accepts multiple parameters (two or more) and returns their sum. (0.5 Grade)
- 8. Compare primitive and non-primitive data types in JavaScript with examples. (0.5 Grade)
- 9. Explain how hoisting works in JavaScript and describe the Temporal Dead Zone (TDZ). (1 Grade)
- 10. Write a function that demonstrates closure by creating a counter function that returns the number of times it has been called. (1 Grades)
- 11. Create a function that returns a promise which resolves after 3 seconds with a 'Success' message. (0.5 Grade)
- 12. Convert the previous promise-based function to use `async` and `await`. (0.5 Grade)
- 13. Create a function that returns a promise, which resolves if a random number is greater than 5, otherwise it rejects. (1 Grade)
- 14. Implement a function that chains multiple .then() handlers to a promise to demonstrate promise chaining. (1 Grade)
- 15. Implement a function that handles errors using `try...catch` in an asynchronous operation. (1 Grade)