1. **Task:** Create a program that takes two numbers as input and displays their sum.

**Interactivity:** Use prompt() to take input and alert() to display the result.

**Focus:** Variables and arithmetic operators.

1. **Task:** Build a program that swaps the values of two variables and displays the result.

**Interactivity:** Use console.log() to display swapped values.

**Focus:** Variables and temporary variables.

1. **Task:** Create a program that calculates the area of a rectangle and displays it.

**Interactivity:** Use prompt() for length and width, and alert() for the result.

**Focus:** Variables and multiplication.

1. **Task:** Write a program that checks if a number is even or odd and displays the result.

**Interactivity:** Use prompt() for input and alert() for output.

**Focus:** if-else conditions.

1. **Task:** Create a program that checks if a user is eligible to vote (age >= 18).

**Interactivity:** Use prompt() for age and alert() for eligibility.

**Focus:** Comparison operators and conditions.

1. **Task:** Build a program that finds the largest of three numbers.

**Interactivity:** Use prompt() for input and alert() for output.

**Focus:** Nested if-else conditions.

1. **Task:** Write a program to print numbers from 1 to 10 using a for loop.

**Interactivity:** Display the output in the console.

**Focus:** for loop.

1. **Task:** Create a program to print the multiplication table of a number.

**Interactivity:** Use prompt() for input and console.log() for output.

**Focus:** for loop.

1. **Task:** Build a program to find the sum of all numbers from 1 to 100 using a while loop.

**Interactivity:** Display the result using alert().

**Focus:** while loop.

1. **Task:** Write a function to calculate the factorial of a number and display the result.

**Interactivity:** Use prompt() for input and alert() for output.

**Focus:** Functions and recursion.

1. **Task:** Create a function to check if a string is a palindrome.

**Interactivity:** Use prompt() for input and alert() for output.

**Focus:** Functions and string manipulation.

1. **Task:** Build a function to convert Celsius to Fahrenheit.

**Interactivity:** Use prompt() for input and alert() for output.

**Focus:** Functions and arithmetic operations.

1. **Task:** Create a webpage with a button that displays an alert when clicked.

**Interactivity:** Use onclick event.

**Focus:** Event handling.

1. **Task:** Build a webpage with an input field that displays the entered text in a paragraph when a button is clicked.

**Interactivity:** Use onclick event and innerHTML.

**Focus:** Event handling and DOM manipulation.

1. **Task:** Design a webpage where the background color changes when a button is clicked.

**Interactivity:** Use onclick event and style.backgroundColor.

**Focus:** Event handling and CSS manipulation.

1. **Task:** Create a class Person with properties name and age. Instantiate an object and display its details.

**Interactivity:** Use console.log() to display object properties.  
**Focus:** Classes and objects.

1. **Task:** Build a class Rectangle with methods to calculate area and perimeter. Instantiate an object and display the results.

**Interactivity:** Use console.log() for output.

**Focus:** Classes and methods.

1. **Task:** Create a class Car with properties brand and speed. Add a method to increase speed and display the updated speed.

**Interactivity:** Use console.log() for output.

**Focus:** Classes and methods.

1. **Task:** Write a program to divide two numbers and handle division by zero error.

**Interactivity:** Use try-catch and alert() for error messages.

**Focus:** Error handling.

1. **Task:** Create a program that checks if user input is a number and handles invalid input errors.

**Interactivity:** Use prompt() and alert() for error messages.

**Focus:** Error handling.

1. **Task:** Build a form validation program that checks if an email is valid.

**Interactivity:** Use prompt() for input and alert() for validation messages.

**Focus:** String validation.

1. **Task:** Create a program that validates a password (minimum 8 characters).

**Interactivity:** Use prompt() for input and alert() for validation messages.

**Focus:** String validation.

1. **Task:** Write a program to find the largest number in an array.

**Interactivity:** Use console.log() for output.

**Focus:** Arrays and loops.

1. **Task:** Create a program to reverse an array and display the result.

**Interactivity:** Use console.log() for output.

**Focus:** Arrays and loops.

1. **Task:** Build a program that displays the current date and time.

**Interactivity:** Use alert() or console.log() for output.

**Focus:** Date object.

**Evaluation Criteria Alignment**

* **Logic Building (10 Marks):** Students must plan and structure their code effectively.
* **Rectifying Errors (6 Marks):** Debugging and fixing syntax or logical errors.
* **Well-Structured Program (6 Marks):** Clean, organized, and readable code.
* **Integration of Technologies (8 Marks):** Effective use of JavaScript fundamentals.