▨ JavaScript Assignment – Basics

Instructions

- Use **only JavaScript**.
- Do not use HTML or CSS.
- Write clean, readable code with proper variable names.
- Execute code using **Browser Console**

Section 1: JavaScript Basic Data Types

Q1. Identify Data Types

Create variables of the following data types and print their **values** and **types** using `typeof`:

- Number
- String
- Boolean
- Undefined
- Null
- Object
- Array

Q2. Basic Operations

1. Declare two number variables.
2. Perform and display the following operations:
   - Addition
   - Subtraction
   - Multiplication
   - Division
   - Modulus

Q3. String Operations

1. Create a string variable with your **full name**.
2. Print:
   - Length of the string
   - Uppercase version
   - Lowercase version
   - First character of the string

Section 2: Functions

Q4. Simple Function

Write a function `greet()` that prints the following message: Hello, Welcome to JavaScript!

Q5. Function with Parameters

Write a function `add(a, b)` that:

1. Accepts two numbers as parameters.
2. Returns their sum.
3. Prints the result.

Q6. Function with Return Value

Write a function `isEven(num)` that:

- Returns `true` if the number is even.
- Returns `false` otherwise.

Q7. Arrow Function

Convert the following function into an **arrow function**:

```
function square(num) {
  return num * num;
}
```

Q8. Default Parameters

Write a function calculateArea(radius = 1) that calculates and returns the area of a circle.