**JavaScript Basics Assignment 1**

**Objective:**

This assignment is designed to help you practice the fundamental concepts of JavaScript, including variable declaration, data types, and operators. By completing this assignment, you will gain hands-on experience with JavaScript syntax and develop a solid foundation for more advanced topics.

**Part 1: Variable Declaration and Data Types**

**Exercise 1: Variable Declaration**

1. **Task**: Declare variables using var, let, and const. Assign different values to each and then try reassigning values. Observe the behavior.
2. **Task**: Create variables of each of the following types: String, Number, Boolean, Undefined, Null, Symbol, and BigInt. Print their types using typeof.

**Part 2: Operators**

**Exercise 2: Arithmetic Operators**

1. **Task**: Perform arithmetic operations (+, -, \*, /, %, \*\*) on two variables and print the results.
   * Example:

**Exercise 3: Comparison Operators**

1. **Task**: Create a program that compares two numbers using all comparison operators (==, ===, !=, !==, <, >, <=, >=). Print the results.

**Exercise 4: Logical Operators**

1. **Task**: Write a program that uses logical operators (&&, ||, !) with Boolean variables. Combine them in different ways to demonstrate their functionality.
   * Example:

**Part 3: Practical Applications**

**Exercise 5: Simple Calculator**

1. **Task**: Create a simple calculator program that asks the user for two numbers and an operator (+, -, \*, /, %) and then calculates and displays the result.

**Exercise 6: Type Conversion**

1. **Task**: Write a program that converts a string containing a number into a Number, and a number into a String. Also, demonstrate implicit type conversion in JavaScript.