Basic JavaScript Exercises

Boolean Expressions Exercises

In the following exercises declare all your variables with const unless you are told otherwise

- 1. True or False Create two boolean variables: isSunny with a value of true and isWeekend with a value of false. Use console.log to print the result of isSunny && isWeekend.
- 2. Checking Conditions Create two variables: age with a value of 20 and license with a value of true. Use console.log to determine if the person is over 18 and has a driving license by evaluating these conditions.
- 3. **Either Or Scenario** Create two variables: knowsJavaScript with a value of false and knowsPython with a value of true. Use console.log to print whether the person knows either JavaScript or Python using the || operator.
- 4. **Negating a Boolean** Create a boolean variable isRaining with a value of true. Use console.log to print the value of !isRaining.

5. Complex Logical Expression

- Create a boolean variable likesMusic and assign it a value.
- Create another boolean variable playsGuitar and assign it a value.
- Create a third boolean variable hasTime and assign it a value.
- Use these variables to form a complex Boolean expression that evaluates whether a person likes music and either plays guitar or has time to learn. Write this expression using the logical operators && and ||.
- Use console.log to print the result of your expression.

6. Age Comparison

- Create a variable personAge and assign it a value (e.g., personAge = 25).
- Use console.log to check and print whether personAge is greater than 18.

7. Temperature Check

- Create a variable currentTemperature and assign it a value
 (e.g., currentTemperature = 30).
- Use console.log to determine if the temperature is less than 20
 or greater than 30 and print the result.

8. Equality Check

- Create two variables, firstNumber with the value of 10 and secondNumber with the value of '10'.
- Use console.log to check if firstNumber is equal to secondNumber using the == operator and print the result.
- Repeat using the === operator and compare the outcome.

9. Budget Limit

- Create a variable budget and set it to a numeric value (e.g., budget = 500).
- Create another variable expense and set it to another numeric
 value (e.g., expense = 450).
- Use console.log to print whether the expense is less than or equal to the budget.

10. Height Comparison

- Create two variables, person1Height and person2Height, and assign them values representing their heights in centimeters (e.g., person1Height = 170, person2Height = 165).
- Use console.log to print if person1Height is greater than, less than, or equal to person2Height.