JavaScript Practice

Data Types and Variables:

What are the different data types used in JavaScript variables in the provided code?

Explain the difference between var, let, and const in JavaScript.

Why does JavaScript allow assigning different data types to the same variable?

How does JavaScript handle variables declared but not initialized? Illustrate with an example from the code.

Discuss the significance of variable names in programming and how they are used in JavaScript.

Numeric Data Types:

What are the various numeric data types used in JavaScript, as shown in the code?

Explain the difference between integers, doubles, and Infinity in JavaScript with examples.

How does JavaScript handle arithmetic operations involving different numeric data types?

String Data Type:

How are strings represented in JavaScript?

Discuss the difference between declaring strings with single quotes ('') and double quotes ("") in JavaScript.

Explain why characters are automatically treated as strings in JavaScript.

Boolean and Undefined Data Types:

Explain the purpose of boolean variables in JavaScript.

Discuss the concept of undefined in JavaScript variables and provide examples from the code.

How are boolean variables useful in conditional statements and control flow in JavaScript?

Null Data Type:

Describe the significance of the null value in JavaScript.

Differentiate between null and undefined in JavaScript.

Provide an example from the code illustrating the use of null.

Object Data Type:

Explain how objects are represented in JavaScript.

Discuss the structure and purpose of the countryInfo object in the provided code.

How can objects be nested within other objects in JavaScript?

Array Data Type:

Describe the purpose and structure of arrays in JavaScript.

Provide examples from the code demonstrating arrays containing different data types.

Discuss the concept of "array of arrays" and its significance.

Variable Naming Conventions:

What are the conventions for naming variables in JavaScript?

Discuss the importance of choosing meaningful and descriptive variable names.

Identify any variable naming conventions followed or violated in the provided code.

Constants in JavaScript:

Explain the use of const keyword in JavaScript.

Discuss why reassigning a value to a constant variable result in an error.

Provide examples from the code demonstrating the declaration and use of constants.