JavaScript: var vs let vs const and alert vs prompt vs confirm SEARCH

# 1. var vs let vs const

## var:

Scope: Function-scoped. It is accessible within the function it was declared.  
Hoisting: Variables declared with var are hoisted to the top of their scope and initialized as undefined.  
Re-declaration: Allowed within the same scope.  
Use Case: Legacy code. It’s recommended to use let or const instead in modern JavaScript.

## let:

Scope: Block-scoped. It is accessible only within the block where it is declared.  
Hoisting: Variables declared with let are hoisted but not initialized. Accessing them before declaration results in a ReferenceError.  
Re-declaration: Not allowed within the same scope.  
Use Case: When the value of the variable needs to change, but you want to limit its scope to the block.

## const:

Scope: Block-scoped, similar to let.  
Hoisting: Variables declared with const are hoisted but not initialized, leading to a ReferenceError if accessed before declaration.  
Re-declaration: Not allowed within the same scope.  
Mutability: The variable’s value cannot be reassigned, but if it’s an object or array, its properties or elements can be modified.  
Use Case: For variables that should not be reassigned.

# 2. alert vs prompt vs confirm

## alert:

Function: Displays a message to the user in a dialog box with an 'OK' button.  
Use Case: To convey information to the user, but it doesn't capture user input.  
Example: alert('Hello World!');

## prompt:

Function: Displays a dialog box that prompts the user for input, with 'OK' and 'Cancel' buttons. Returns the input value if 'OK' is pressed, otherwise returns null.  
Use Case: To capture a single piece of information from the user, like their name or age.  
Example: prompt('Enter your name:');

## confirm:

Function: Displays a dialog box with a message and 'OK' and 'Cancel' buttons. Returns true if 'OK' is pressed, otherwise returns false.  
Use Case: To confirm user actions like deletion or submission.  
Example: confirm('Are you sure you want to delete this?');