Web191 - JAVASCRIPT AND PHP

Assignment 4a: Review Questions

Due Date: Mar 5, 2024

1. What type of error occurs when the interpreter fails to recognize code?
   1. debugging
   2. syntax
   3. runtime
   4. logic

1. errors are problems in the design of a program that prevent it from running as you anticipate.
   1. Application
   2. Syntax
   3. Logic
   4. Runtime

1. When a JavaScript interpreter encounters a problem while a program is executing, that problem is called a(n)error.
   1. application
   2. syntax
   3. logic
   4. runtime

1. Which of the following statements causes a syntax error?
   1. let firstName = "";
   2. document.write(Available points: " + availPoints);
   3. readyState = true;
   4. "use strict";

1. Which of the following statements writes the value of the selection variable to the console?
   1. console.log("selection");
   2. document.console("selection");
   3. console.alert(selection);
   4. console.log(selection);

1. Which of the following for statements is logically incorrect?
   1. for (var count = 10; count <= 0;count++) { document.write(count);

}

* 1. for (var count = 0; count <= 10; count++) { document.write (count);

}

* 1. for (var count = 10; count >= 0;count--) { document.write (count);

}

* 1. for (var count = 5; count >= 0;count--) { document.write (count);

}

1. Which of the following modes temporarily suspends, or pauses, program execution so that you can monitor values and trace program execution?
   1. Suspend
   2. Step
   3. Break
   4. Continue

1. Which command executes all the statements in the next function in browser debugging tools?
   1. Step out
   2. Step over
   3. Step
   4. Step in/into

1. After you throw an exception, you use a statement to handle the error.
   1. try
   2. throw
   3. catch
   4. finally

1. In, some features are removed from the JavaScript language, while other features require more stringent syntax.
   1. exception handling
   2. strict mode
   3. debugging tools
   4. debugger mode

1. Which of the following pieces of information is passed as an argument from a throw statement to a catch statement?
   1. error number
   2. error message
   3. line number
   4. URL

1. What statement can you add to your code to effectively serve the same role as a breakpoint?
   1. break;
   2. breakpoint;
   3. debug;
   4. debugger;

1. The Watch window in the debugger lets you monitor the value of a(n) during program execution.
   1. function
   2. exception handler
   3. expression
   4. statement

1. The is the ordered list maintained by a JavaScript processor containing all the procedures, such as functions, methods, or event handlers, that have been called but have not yet finished processing.
   1. Scope window
   2. Watch window
   3. strict mode
   4. call stack

1. Which of the following exception handling code executes regardless of whether its associated try block throws an exception?
   1. throw "Please enter your last name.";
   2. 2. catch(lNameError) { return false;

}

* 1. catch(lNameError) { window.alert(lNameError) return false;

}

* 1. finally { lNameValid = true;

}

1. What is the advantage of tracing errors using the window.alert() method? What is the advantage of using the console.log() method instead?

window.alert() method

It has the advantage of freezing the program at the current point each time an alert box is displayed, and not continuing until you click OK.

console.log() method

It is more effective technique, because you use the contents of the console log () to evaluate each variable. You can quickly view a list of variable values in the console.

1. Explain how to debug code by commenting it out.

You identify lines that you think may be causing problems and transform them into comments.

This helps you isolate a particular statement that may be causing an error.

1. Explain two different ways that a text editor specialized for web development can help you in preventing errors and debugging code.

A text editor designed for web development can highlight both errors in your HTML code and syntax errors in your JavaScript while you type, saving you the trouble of locating and fixing them later.

1. When and why should you use exception handling with your JavaScript programs?

Exception handling is used to test any type of externally generated input or functionality. The primary reason for employing exception handling in JavaScript is to examine user input.

1. Explain what strict mode is, how to implement it, and how it’s useful in reducing coding errors.

In strict mode, some features are omitted from the JavaScript language, while others necessitate stricter syntax.   
  
To ask JavaScript processors to parse your code in strict mode, add the following statement to your code: "use strict" ;  
  
  
While coding in strict mode may result in more errors, it can be an effective debugging tool. Many of the features that strict mode bans or requires to be used in a specific way are well known to cause difficult-to-find errors in code that implements them using nonstrict syntax.