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JavaScript Activity

Functions and Comparisons

1. Create a function that accepts a number as its parameter. Using if-else, determine whether that number is an even or an odd number. You can invoke the function in any way, as long as the function has a parameter that accepts a number.

Conditional Statements

2. **if-else-if ladder statement**
   - **Find the smallest of three numbers**
     - Function "`findSmallest(num1, num2, num3)`" finds the smallest of three number parameters by using "<" and "`&&`" operators in JavaScript. Print the smallest number out of the three parameters.

3. **switch statement**

Print the following message based on the condition given below

Month	Message
January	31 Days
February	28/29 Days
March	31 Days
April	30 Days
May	31 Days
June	30 Days
July	31 Days
August	31 Days
September	30 Days
October	31 Days
November	30 Days
December	31 Days
Others	"Invalid Input!"

Loops

4. **for Loop**
   - Print out 1-25 backwards (only odd numbers)

5. **while Loop**
   - Initialize an array consisting of 3 elements of random numbers between 1-10. Print out the array using while loop but add 1 on its current value.

6. **for...in Loop**
   - Create an object in which you will put your personal information (name, age, university) and display it using the for...in Loop.

7. **do...while Loop**
   - Print out al numbers divisible by 3 in the range of 1-100.

8. **for...of Loop**
   - Check each element in the following array. Print accordingly if the element is negative, zero, positive, or not a number. [1, 0, -29, “Hello”, -6, 20, 0, “World”]

JavaScript in Action

9. Download and extract the complete simple calculator and modify the `index.js` program so that the user can input through the keyboard.

   Follow these hints:

   a. Add keypress event lister to the `document`
   b. Get the pressed key through the `event.key`
   c. Using the switch statement, call the appropriate function the following keys:

Keys	Function
Numbered keys (0 – 9)	Call `getDigit(key)`
Operation keys (+, -, *, /)	Call `getOperation(key)`
Enter key	Call `getResult()`
Backspace key	Call `deleteDigit()`