Web Development – Mr. Turner

Level 1 Project – Hot and Cold

**Project Overview**

In the game of Hot and Cold, the player gets a set number of turns to “find” a number. As the player guesses, (s)he will be informed of how close (s)he is to the actual number in terms of hot and cold.

**The Page**

The player will be given 5 turns.

At the beginning of the game, the computer will generate a random number between 0 and 100.

The player will ***not*** be told the number.

On screen, the page will keep a running review of all of the player’s guesses and the degree of hotness or coldness associated with the guess. To determine the degree, use these guidelines.

|  |  |
| --- | --- |
| Guess | Degree |
| Within 5 | Very Hot |
| Within 8 | Hot |
| Within 15 | Very Warm |
| Within 20 | Warm |
| Within 30 | Cool |
| Within 40 | Very Cool |
| Within 55 | Cold |
| More than 55 away | Very Cold |

The user will enter the guesses through the use of numbered buttons. There will be a series of buttons numbered 0 through 9, a reset button, and a submit button. The user will click the buttons to build a guess. If the user wants to submit the guess (s)he should click the submit button. If the user does not like the guess (s)he should click the reset button.

If the user guesses the number within 5 guesses (s)he wins. Otherwise, (s)he loses. Each time the user’s guess is “Very Hot”, the user should be awarded another turn.

When the game is over, change the text on the reset button to say “Reset Game”. Now, if the button is pressed, the game will start over with a clean slate and a new random number.

**Programming Requirements**

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| * You must code your own HTML and CSS. Use of a drag and drop interface or the usage of code downloaded from the internet is not permitted. |
| * Use of deprecated code is not permitted. Use an HTML 5 reference as your guide. |
| * You must comment your name into the top of every page. |
| * Your code must be structured in a consistent and legible manner |
| * Your text must be organized through the use of sectioning tags (div, span, p, h1 – h6). Tables are acceptable for data but not for page design. |
| * Your interface must be smooth and easy to figure out for a client. |
| * Your pages must be formatted using CSS. |