CRACK THE CODE AND OPEN THE SAFE

Crack the code is the single-player fun game to boost your mind in logical assumptions. The game involves guessing the four-digit random number within 5 chances. The computer gives the player hints about the numbers in color-coding. Red represents the digit is not present in that number, orange represents the digit is present in the number but at the wrong place and green represents the particular digit is present in the number at the right place, Voila!
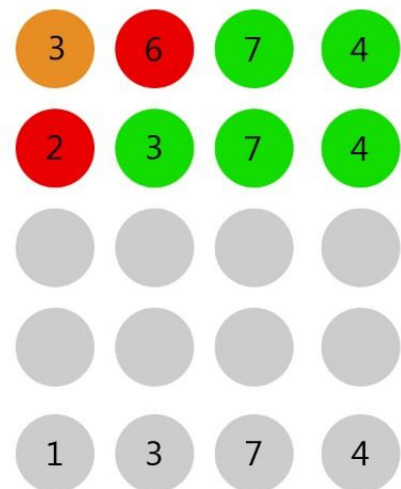
PROBLEM STATEMENT

Design a number master game using JavaScript, HTML, CSS and Bootstrap. The pages must be fully functional, responsive and user friendly.

DESIGN SPECIFICATION AND CONSTRAINTS

Design a game page and a start button to start the game and a score field to display the scores at each level.

1. Once the player hits the start button, let the player guess the number.
2. In this case, the system generated random number is 1371
3. At the first chance, the player guessed 3674.
4. Note that luckily 7 and 4 are in the right places.
5. The number 3 is present in that random number but the position is different so it is coded as orange.
6. Whereas 6 is not present in the 4 digits random number, so it is coded as orange.
7. The Player gets only 5 chances to break the code.
8. Once the game is completed, display the result with a win or lose status and generate game points accordingly.
9. After generating the result, navigate the user back to the game page and restart the game accordingly.

SCORES AND LEVELS

1. A player who is able to guess the code at least chances wins the maximum point.
2. If the player is not able to guess the code within 5 chances, he/she will lose the game and restart the game again with different codes.
3. On completion of a level, allow the player to guess the next level of random code.
4. Increase the difficulty level and size of the random digits on the successful completion of each level.

Any specification on the front-end design?

Basic requirements:
- Use fonts wherever it's required in the design.
- Use icons wherever it's required in the design.
- This is a front-end task

Do's:
- All your HTML tags should be created with DOM elements.
- You're supposed to use only JavaScript.
- Use CSS completely for styling.
- Use Bootstrap only when it is necessary.

Don't:
- Don't use JQuery.

How do I submit my work?

- Host your webpage in Netlify (https://www.netlify.com).
- Commit all your work files to GitHub(https://github.com/)

What is the deadline for the task?

You will be given **24 hours** to complete the task. If you have any challenges with finding time, please let us know.

Terms and Conditions?

- You agree to not share this confidential document with anyone.
- You agree to open-source your code (it may even look good on your profile!). Do not mention our company's name anywhere in the code.
- We will never use your source code under any circumstances for any commercial purposes; this is just a basic assessment task.

NOTE: Any violation of Terms and conditions is strictly prohibited. You are bound to adhere to it.