

GUESS THE NUMBER GAME

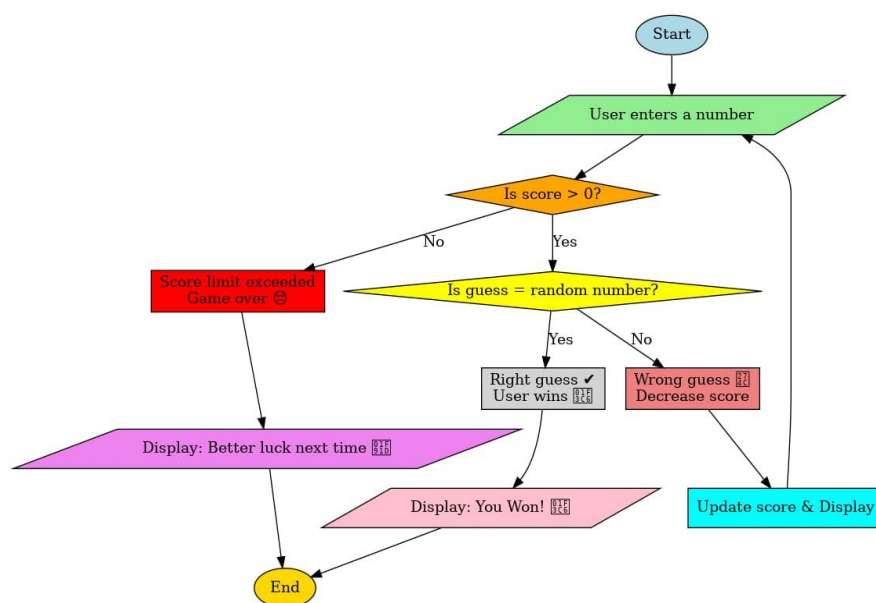
INTRODUCTION:

A Simple web-based game where the user has to guess a randomly generated number. The user should enter the number. The game checks whether the number generated by the system and the number user entered are same. If both the number matches, user wins else, user loses. The Number Generated will be in the range 1-10.

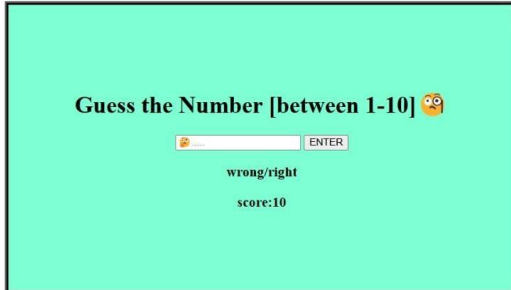
FEATURES:

- ❖ Random number generation.
- ❖ Attempts Tracking.
- ❖ If the guess is correct:
 - right/wrong line is replaced by "Right ✓".
 - Alert pops up saying "you won! 🏆".
- ❖ If the guess is Incorrect:
 - right/wrong line is replaced by "Wrong ✗".
- ❖ If the guess is wrong and score reduced to less than or equal to zero:
 - right/wrong line is replaced by "Exceeded limit".
 - Alert pops up saying "better luck next time 🙏".

FLOWCHART:



USER INTERFACE:



TESTING:

- **FUNCTIONAL TESTING:** Ensure the game behaves correctly for different inputs.

Test case ID	Test Scenario	Input	Expected Output	Status
TC-01	Guess-Correct	User input = Secret Number	“You won”	PASS
TC-02	Guess-Incorrect	User input! = Secret Number	Score decreases by 1	PASS
TC-03	Guess – Limit Reached	Max attempts = 10. User fails to guess	“Better luck next time”	PASS

- **PERFORMANCE TESTING:** Ensures smooth performance across devices and browsers.

Test Case ID	Test Scenario	Expected Output	Status
TC-04	Load Time	Game loads within 2 seconds	PASS
TC-05	Cross-Browser Test	Works on chrome, edge.	PASS
TC-06	Mobile Responsiveness	UI adjusts well on mobile devices	PASS
TC-07	Multiple users	Two players on different devices can play separately	PASS

FUTURE ENHANCEMENT:

- ❖ Integrating buttons with keyboard keys.
- ❖ Hint System.
- ❖ Local Storage to Store the highest Score.

CODE AND HOSTING DETAILS:

GitHub Repository Link:

<https://github.com/lavaniyamanikandan/Guessthenumber-game.git>

Game link:

<https://lavaniyamanikandan.github.io/Guessthenumber-game/>