JavaScript Concepts Learned from Typing Speed Game Project

- 1. Variables & Constants
- Use of let and const
- Understanding scope and data types (string, number, boolean)
- 2. DOM Manipulation
- Selecting elements with document.querySelector()
- Changing element content and properties with innerHTML, value, disabled
- 3. Async / Await + Fetch API
- Using async functions and await
- Fetching data from external API using fetch()
- Parsing JSON with response.json()
- 4. Event Handling
- Listening to user actions with addEventListener (input, click)
- Using arrow functions (() => {}) as callbacks
- 5. Timers
- setInterval() for countdown
- clearInterval() to stop the timer
- 6. Conditional Statements
- Using if and else for logic control
- Using string methods like endsWith(), trim()

7. String & Array Methods
- Using split() and trim() for word comparison
- Regular expressions (e.g. \As+/) for splitting by spaces
8. Logical Flow & Game Logic
- Tracking game state using boolean flags
- Word-by-word accuracy checking

- Detecting end of quote and loading new quote

- Manipulating element styles with JavaScript

- Using template literals (`\${}`) for dynamic messages

- Handling live user input and tracking performance

- Designing a complete flow: Start -> Play -> End

- Organizing code into reusable functions like startGame(), stopGame(), endGame()

This project gave hands-on experience with frontend JavaScript, real-world API usage, and live

9. Popup Handling & Styling

- Showing and hiding result popups

10. Reusability and Modular Code

11. Real-Time App Thinking

game interactivity.

- Providing live feedback and results