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<!DOCTYPE html>
<html>
  <head>
    <title>Guess a Word</title>
  </head>
  <body>
    <h1>Guess a Word</h1>
    <script type="text/javascript">
      // Create an array of words
      var words = [
        "smartphone",
        "apple",
        "weather",
        "lecture",
        "transportation"
      ];

      // Pick up a random word
      var word = words[Math.floor(Math.random() * words.length)];

      // Set up the answer array
      var answer = [];
      for (var i = 0; i < word.length; i++) {
        answer[i] = "_";
      }

      var remainingLetters = word.length;

      // The game loop
      while (remainingLetters > 0) {
        // Show the progress
        alert(answer.join(" "));

        // Get a guess from the user
        var guess = prompt("Guess a letter, or click Cancel to stop.");
        if (guess == null) {
          // exit the game
          break;;
        }
        else if (guess.length != 1) {
          alert("Please enter a single letter!");
        }
        else {
          // update thr answer array
          for (var i = 0; i < word.length; i++) {
            if (word[i] == guess && answer[i] == "_") {
              answer[i] = guess;
              remainingLetters--;
            }
          }
        }
      }

      // Congratulating the playet
      alert(answer.join(" "));
      alert("Good job! The word was " + word);
    </script>
  </body>
</html>

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