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Artificial intelligence

Final report

Word Guessing Game:

Introduction:

In this game, you will have to guess a word that has been randomly chosen for you. The game will provide you with a clue in the form of underscores representing the letters in the word. Your task is to guess the letters one by one and try to figure out the complete word.

Here's how the game works:

1. The computer will select a word from a list of words.

2. You will be prompted to enter a letter as your guess.

3. If the letter you guessed is present in the word, the computer will inform you that it's a correct guess.

4. If the letter you guessed is not in the word, the computer will let you know that it's a wrong guess.

5. With each correct guess, the computer will reveal the position(s) of the correctly guessed letter(s) in the word by replacing the corresponding underscore(s) with the letter(s).

6. You need to keep guessing letters until you successfully uncover the entire word or run out of attempts.

7. If you manage to guess the word correctly, you win the game!

8. If you run out of attempts without guessing the word correctly, the game is over and you lose.

Functionalities:

1. Random Word Selection: The game selects a random word from a predefined list of words for the player to guess.

2. Clue Display: The game provides a clue in the form of underscores or blanks, representing the letters of the word that need to be guessed. This clue is updated as the player makes correct guesses.

3. Guessing: The player is prompted to enter a letter as their guess. The game checks if the guessed letter is present in the word.

4. Correct Guess: If the guessed letter is present in the word, the game informs the player that it's a correct guess.

5. Incorrect Guess: If the guessed letter is not in the word, the game lets the player know that it's a wrong guess.

6. Revealing Correctly Guessed Letters: With each correct guess, the game reveals the position(s) of the correctly guessed letter(s) in the word by replacing the corresponding underscore(s) with the letter(s) in the clue.

7. Win Condition: The game checks if the player has successfully guessed the entire word. If all the letters have been correctly guessed, the player wins the game.

8. Loss Condition: The game keeps track of the number of attempts or guesses the player has made. If the player runs out of attempts without guessing the word correctly, they lose the game.

9. Feedback and Messages: The game provides feedback to the player after each guess, informing them if the guess was correct or incorrect. It also provides appropriate messages when the player wins or loses the game.

10. User Interaction: The game prompts the player to enter their guesses and displays the current clue, feedback, and messages in a user-friendly manner.

How to play:

Sure! Here's a guide on how to play the word guessing game:

1. Start the Game: Launch the word guessing game program.

2. Random Word Selection: The computer will choose a word from a predefined list of words. The word will be hidden, and you need to guess the letters to uncover it.

3. Clue Display: The game will display the clue using underscores or blanks, representing the letters in the word that need to be guessed. For example, if the word is "apple," the clue might initially appear as "\_ \_ \_ \_ \_".

4. Guessing a Letter: The game will prompt you to enter a letter as your guess. Think carefully and enter a letter that you believe might be present in the word.

5. Correct Guess: If the letter you guessed is present in the word, the game will inform you that it's a correct guess. The letter will be revealed in the clue, replacing the corresponding underscore(s). For example, if you guessed "p," the clue would update to "\_ p p \_ \_".

6. Incorrect Guess: If the letter you guessed is not in the word, the game will let you know that it's a wrong guess. The number of attempts remaining will also be displayed.

7. Keep Guessing: Continue guessing letters one by one until you successfully uncover the entire word or run out of attempts.

8. Win Condition: If you manage to guess all the letters correctly and uncover the entire word, the game will display a congratulatory message, indicating that you have won the game.

9. Loss Condition: If you run out of attempts without guessing the word correctly, the game will display a message indicating that you have lost.

10. Replay: After the game ends, you can choose to play again by restarting the program.

Conclution:

In conclusion, the word guessing game provides an entertaining challenge where you test your word-solving skills. By guessing letters one by one, you aim to uncover the hidden word within a limited number of attempts. The game engages you with feedback on your guesses and dynamically updates the clue as you make correct guesses. Whether you successfully guess the word or run out of attempts, the game provides a sense of accomplishment and encourages you to improve your guessing strategy for future rounds.

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