

Hangman Game

→Project Overview:-

The Hangman Game project is a simple and interactive Python application that allows users to play the classic word-guessing game, Hangman. The game provides a random word along with a clue, and the player must guess the word one letter at a time. The game tracks wrong guesses and displays a progressively complete hangman figure with each incorrect guess.

→Features:-

- **Random Word Selection:** The game selects a random word from a predefined dictionary along with its corresponding clue.
- **Clue Display:** A clue related to the selected word is provided to assist the player.
- **Word State Display:** The current state of the word is displayed, showing correctly guessed letters and placeholders for unguessed letters.
- **Hangman Figure Display:** The game visually represents the hangman figure, progressing with each wrong guess.
- **Guess Validation:** The game validates each guessed letter, informing the player if the guess is correct, incorrect, or already guessed.
- **Win/Lose Conditions:** The game announces a win if the player guesses the word correctly within the allowed attempts, or a loss if the player exceeds the maximum number of wrong guesses.

→Code Structure:-

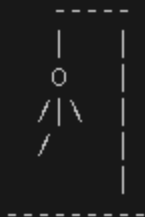
- **Dictionary of Words and Clues:** A predefined dictionary `WORD_CLUES` contains words and their respective clues.
- **Functions:**
 - `print_word_state(word, guessed_letters):` Displays the current state of the word being guessed.
 - `print_hangman(tries):` Displays the hangman figure based on the number of wrong guesses.
 - `play_hangman():` The main function that runs the game logic.
- **Game Loop:** The game loop handles user input, validates guesses, updates the word state and hangman figure, and checks win/lose conditions.

→ Implementation Snippets:-

```
Welcome to Hangman!  
Clue: A popular beverage made from roasted beans
```



```
Word: _____  
Guess a letter: c  
Word: c_____  
Guess a letter: o  
Word: co_____  
Guess a letter: g  
Wrong guess. You have 5 attempts left.
```



```
Word: co_____  
Guess a letter: █
```