

## Hangman

```
import java.util.Scanner;

public class HangmanGame {
    private String[] words = {"apple", "banana", "orange", "strawberry",
"grape"};
    private String wordToGuess;
    private char[] guessedLetters;
    private int attemptsLeft;

    public void startGame() {
        wordToGuess = words[(int) (Math.random() *
words.length)];
        guessedLetters = new char[wordToGuess.length()];
        attemptsLeft = 7;

        for (int i = 0; i < guessedLetters.length; i++) {
            guessedLetters[i] = '_';
        }

        Scanner scanner = new Scanner(System.in);

        while (attemptsLeft > 0) {
            System.out.println("\nWord to guess: " +
String.valueOf(guessedLetters));
            System.out.println("Attempts left: " + attemptsLeft);
            System.out.print("Enter a letter: ");
            char guess = scanner.next().charAt(0);

            if (!checkGuess(guess)) {
                attemptsLeft--;
            }

            if (isWordGuessed()) {
                System.out.println("Congratulations! You've guessed
the word: " + wordToGuess);
                break;
            }
        }
    }
}
```

```

        }
    }

    if (attemptsLeft == 0) {
        System.out.println("Oops! You've run out of attempts.
The word was: " + wordToGuess);
    }

    scanner.close();
}

private boolean checkGuess(char guess) {
    boolean isCorrect = false;
    for (int i = 0; i < wordToGuess.length(); i++) {
        if (wordToGuess.charAt(i) == guess) {
            guessedLetters[i] = guess;
            isCorrect = true;
        }
    }
    return isCorrect;
}

private boolean isWordGuessed() {
    for (char c : guessedLetters) {
        if (c == '_') {
            return false;
        }
    }
    return true;
}

public static void main(String[] args) {
    HangmanGame hangman = new HangmanGame();
    hangman.startGame();
}
}

```

Output:

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Language: Java

```
CalculatorApp.java | HangmanGame.java |
30  (isAlreadyGuessed()) {
31      System.out.println("Congratulations! You've guessed the word: " + wordToGuess);
32      break;
33  }
```

Input

Word to guess: \_\_\_\_\_  
Attempts left: 7  
Enter a letter: listen

Word to guess: \_l\_  
Attempts left: 7  
Enter a letter: sentence

Word to guess: \_l\_  
Attempts left: 6  
Enter a letter: visual

Word to guess: \_l\_  
Attempts left: 5  
Enter a letter: computer

Word to guess: \_l\_  
Attempts left: 4  
Enter a letter: knowledge

Word to guess: \_l\_  
Attempts left: 3  
Enter a letter: written

Word to guess: \_l\_  
Attempts left: 2

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Language: Java

```
CalculatorApp.java | HangmanGame.java |
30  (isAlreadyGuessed()) {
31      System.out.println("Congratulations! You've guessed the word: " + wordToGuess);
32      break;
33  }
```

Input

Attempts left: 5  
Enter a letter: computer

Word to guess: \_l\_  
Attempts left: 4  
Enter a letter: knowledge

Word to guess: \_l\_  
Attempts left: 3  
Enter a letter: written

Word to guess: \_l\_  
Attempts left: 2  
Enter a letter: program

Word to guess: \_ppl\_  
Attempts left: 2  
Enter a letter: default

Word to guess: \_ppl\_  
Attempts left: 1  
Enter a letter: frequency  
Oops! You've run out of attempts. The word was: apple

...Program finished with exit code 0  
Press ENTER to exit console.

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