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## Untitled-2

```
1
    import java.util.Scanner;
 2
 3
    public class Hangman {
 4
        private static String[] words = {"java", "programming", "hangman", "computer", "language"};
 5
        private static String wordToGuess;
 6
        private static StringBuilder guessedWord;
 7
        private static int attemptsLeft;
        private static final int MAX_ATTEMPTS = 6;
 8
9
        public static void main(String[] args) {
10
            Scanner scanner = new Scanner(System.in);
11
            wordToGuess = words[(int) (Math.random() * words.length)];
12
            guessedWord = new StringBuilder("_".repeat(wordToGuess.length()));
13
14
            attemptsLeft = MAX_ATTEMPTS;
15
            System.out.println("Welcome to Hangman!");
16
17
            while (attemptsLeft > ∅) {
18
19
                System.out.println("Word to guess: " + guessedWord);
20
                System.out.println("Attempts left: " + attemptsLeft);
21
                System.out.print("Guess a letter: ");
                char guessedLetter = scanner.next().toLowerCase().charAt(0);
22
23
                if (wordToGuess.indexOf(guessedLetter) >= 0) {
24
25
                    updateGuessedWord(guessedLetter);
26
                    if (guessedWord.toString().equals(wordToGuess)) {
                         System.out.println("Congratulations! You've guessed the word: " +
27
    wordToGuess);
                        break;
28
29
                    }
30
                } else {
31
                    attemptsLeft--;
                    System.out.println("Incorrect guess. Try again.");
32
33
                }
34
                if (attemptsLeft == 0) {
35
36
                    System.out.println("Game over! You've run out of attempts. The word was: " +
    wordToGuess);
37
38
            }
39
40
            scanner.close();
41
        }
42
43
        private static void updateGuessedWord(char guessedLetter) {
44
            for (int i = 0; i < wordToGuess.length(); i++) {</pre>
45
                if (wordToGuess.charAt(i) == guessedLetter) {
                    guessedWord.setCharAt(i, guessedLetter);
46
```

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47 } 48 } 49 } 50 } 51