Intro to Java

8 - ArrayLists / Solution: Hangman

Solution: Hangman

```
import java.util.ArrayList;
import java.util.Scanner;
class Hangman {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("What word do you want to guess?");
        String word = scanner.next();
        // Initial guess, only _
        ArrayList<Character> guess = new ArrayList<>();
        for (int i = 0; i < word.length(); i++) {</pre>
            guess.add('_');
        }
        while (guess.contains('_')) {
            System.out.println("Guess a letter:");
            String letters = scanner.next(); // scanner.nextChar does not exist :-(
            char letter = letters.charAt(0); // we read a string and take the first char
            // Positions to uncover
            ArrayList<Integer> indexes = getLetterIndexes(word, letter);
            // Update guess, uncovering guessed letters
            uncoverLetters(guess, indexes, letter);
            // Print what happened
```

```
System.out.println(guess);
    }
    System.out.println("You won the game!");
}
public static ArrayList<Integer> getLetterIndexes(String word, char letter) {
    ArrayList<Integer> indexes = new ArrayList<>();
    for (int i = 0; i < word.length(); i++) {</pre>
        if (word.charAt(i) == letter) {
            indexes.add(i);
        }
    }
    return indexes;
}
public static void uncoverletters(ArrayList<Character> guess, ArrayList<Integer> indexes, char letter
    for (int i: indexes) {
        guess.set(i, letter);
    }
}
```

Made with ♥ by teachers at ReDI School.