Project #1: Hangman

Due Feb 20, 2019 by 11:59pm **Points** 100 **Submitting** a file upload

For this project, you will implement the Hangman game using Java.

Hangman is a simple game where the player needs to guess a phrase. In your implementation, the program will randomly select a movie title and display a shadow of the movie name using asterisks. If the movie is "Star Wars", the program will show **** **** at the beginning of the game. The user then tries to guess the movie title by entering one letter at time. If the user tries 'A' or 'a', the next display shall be: **a** *a** However, the user is only allowed 7 mistakes. Once the user guesses all the letters in the phrase, that person wins.

SPECIFICATIONS:

- You should have 15 movie names to randomly choose from.
- Use Stringbuilder class. You can find information about this class using the Java API
  - See: https://docs.oracle.com/en/java/javase/11/docs/api/java.base/java/lang/StringBuilder.html
  - This class allows you to modify Strings (i.e. get and change a character in the string)
- Phrases are allowed to use upper and lowercase letters
- If the movie title uses characters other than a letter, please reveal that character. Do not use an asterisk.
  - Check out the Character class https://docs.oracle.com/javase/9/docs/api/java/lang/Character.html
  - use the Character.isLetter method - Starter code shows how to use this.
  - Example:
    - For the movie "Star Wars: The Last Jedi"
    - The game starts with: **** ****: *** **** ****
    - Notice how the colon character is displayed above.
- User can have 7 wrong guesses before the game is over.
- If the user guesses all the letters, they win.

STARTER CODE:

```
/**
 *
 * @author Student Name
 * @version 1.0
 * @since -DATE FINISHED-
 * Hangman.java
 *
 * This program allows a user to play Hangman with the computer.
 * --EXPLAIN THE RULES--
 *
 */
import java.util.*;
import java.lang.*;

public class Hangman
{
   //This is an array of Strings
   static String movieList[] = {"Star Wars: The Last Jedi","The Matrix","Avatar"};
   // add more to this list by adding more String Literals separated by commas
   /**
    * Entry point of the program
    * @param args input arguments
    */
   public static void main(String[] args)
   {
      // This code snippet just shows you how to use Stringbuilder.
      // Change the code as you see fit.
      String movie = movieList[0];  // picks the Star Wars movie for the game
      StringBuilder currentGuess = new StringBuilder(movie.length());
      System.out.println(movie);

      char c = movie.charAt(0);
      if(Character.isLetter(c))
         System.out.println(c + " is a letter");
   }
}
```

RUBRIC:

10pts - Provide a user friendly interface (Give user clear instructions and status)

5pts - Randomly pick a movie from 15 preset movies.

20pts - Hide the selected movie using asterisks.

25pts - Correctly reveal the correct letter gueses. Keep the casing (upper or lower) of the original move title.

10pts - Allow movies to have titles with non-letter characters

15pts - Allow 7 user mistakes

15pts - Write Java code that is well documented and easy to follow.

SUBMISSION:

ON TIME: If you submit on time, you will possibly get 100 points.

12 HOURS LATE: If you submit any time between midnight to 11:59am the next day (Thursday), you can get a maximum of 85 points.

24 HOURS LATE: If you submit any time between noon to 11:59am the next day (the 24 hour mark), you can get a maximum of 70 points.

2 DAYS LATE: If you submit any time on Friday, you get a maximum of 50 points.

Beyond this, no submissions will be accepted.

Please submit your files in a zipped folder as usual. Do not include any class files. Include a README.txt file with your name, date of completion, outside resources you may have used and any notes for the grader.

HONESTY POLICY:

Please work indivudually. If you sought outside assistance, please document that in a README.txt file

‹ Previous Next ›

SUBMISSION

Submitted!
Feb 20, 2019 at 11:12pm
Submission Details
Download Hangman-1.java

Grade: 100 (100 pts possible)
Graded Anonymously: no

Comments:
make sure to read the instructions carefully, do submit a README.txt when submitting your projects
Arturo Galvan-Alarcon, Mar 6, 2019 at 1:33pm