CS202: PROGRAMMING PARADIGMS & PRAGMATICS

Semester II, 2021 – 2022

Lab 4: Hangman in Perl!

Aim: Write a program to play a word-guessing game like Hangman.

Let's get started!

- o Create a directory structure to hold your work for this course and all the subsequent labs:
 - Suggestion: CS202/Lab4

Introduction

- The word to guess is represented by a row of dashes, giving the number of letters in the word.
- o If the player suggests a letter which occurs in the word, it should write it in all its correct positions
- If the suggested letter does not occur in the word, it should draw one element of a hanged man stick figure as a tally mark
- o The game is over when:
 - The player completes the word, or guesses the whole word correctly Player Wins!
 - Number of tries exceeds a limit (completes the hangman diagram) Player loses!

Game Simplified:

- It must randomly choose a word from a list of words.
- It must stop when all the letters are guessed correctly.
- It must give them limited tries and stop after they run out.
- o It must display letters they have already guessed (either only the incorrect guesses or all guesses).

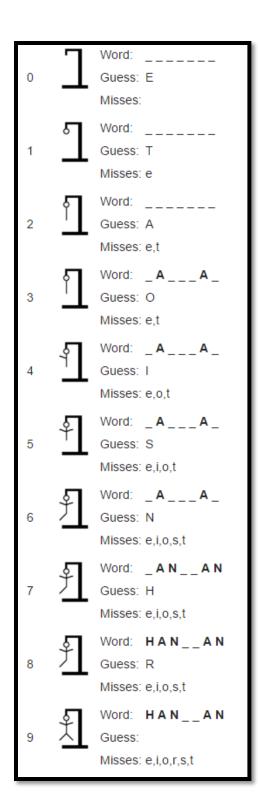
Suggestions:

- If you are familiar with OOP in Perl, use classes whenever/wherever possible to imitate real world objects
- If not, then try to modularize your program as much as possible into meaningful subroutines
- First get a simple text version of your game correct!!
- Then try drawing the hangman as shown in the examples.

• Examples:

```
Here is your word: -----
Guesses so far:
Make a guess: a
Good guess! you have 6 body parts left
Here is your word: ----a-
Guesses so far: a
Make a guess: 1
Bad guess - you have 5 body parts left
Here is your word: ----a-
Guesses so far: al
Make a guess: e
Bad guess - you have 4 body parts
Here is your word: ----a-
Guesses so far: ale
Make a guess: h
Bad guess - you have 3 body parts
Here is your word: ----a-
Guesses so far: aleh
Make a guess: p
Good guess! you have 3 body parts
Here is your word: p----a-
Guesses so far: alehp
Make a guess: program
Yeah! you got it!
Do you want to play again (y/n)? n
```





Sample List of Words

"computer|radio|calculator|teacher|bureau|police|geometry|president|subject|country|en viroment|classroom|animals|province|month|politics|puzzle|instrument|kitchen|language| vampire|ghost|solution|service|software|virus25|security|phonenumber|expert|website|ag reement|support|compatibility|advanced|search|triathlon|immediately|encyclopedia|endur ance|distance|nature|history|organization|international|championship|government|popula rity|thousand|feature|wetsuit|fitness|legendary|variation|equal|approximately|segment|priority|physics|branche|science|mathematics|lightning|dispersion|accelerator|detector|terminology|design|operation|foundation|application|prediction|reference|measurement|concept|perspective|overview|position|airplane|symmetry|dimension|toxic|algebra|illust ration|classic|verification|citation|unusual|resource|analysis|license|comedy|screenplay|production|release|emphasis|director|trademark|vehicle|aircraft|experiment";

Submitting your work:

- o All source files and class files as one tar-gzipped archive.
 - When unzipped, it should create a directory with your ID. Example: 2008CSB1001 (NO OTHER FORMAT IS ACCEPTABLE!!! Case sensitive!!!)
- Source files should include the following: (Case-Sensitive file names!!)
 - Hangman.pl
 - Any other supporting or required files
- Negative marks for any problems/errors in running your programs
- If any aspect of the game / rules are confusing, make an assumption and state it clearly in your README file!
- README file should also have instructions on how to use/run your program!
- Submit/Upload it to Google Classroom
- Marks Allocation
 - Correct Text Version [10 points]
 - Graphic Version [+5 points]
 - Coding Style [2 points]
 - README [3 points]