

DIG3480c Assignment 1

Due By: 03/01/10 6:00pm

Delivery Method: Make sure your assignment root folder is located and accessible at http://sulley.dm.ucf.edu/~your_sulley_username/dig3480c/assignment1

Overview

Write a simple program that contains three parts. 1) Ask the user to input a String; 2) Convert the String to "Pig Language"; 3) Write the String to the console window. The program will repeat until the user indicates that they want to exit.

Specifications

Implementation

General

- Code should be indented to show parent/child relationships.
- The server path for this assignment should be `~/public_html/dig3480c/assignment1`
- Your XHTML page should be located in the root directory for this assignment and should be named `page_index.html`
- The `<title>` of `page_index.html` should be "Assignment 1 – first_name last_name".
- All directories and filenames should contain no spaces or uppercase letters.

JavaScript

- Your JavaScript should be written internal and loaded in the `<head>` of `page_index.html`, appearing between `<script type="text/javascript">` and `</script>` tags.

Functional Spec

General

- Global variables may be used in this assignment, but use them only when necessary.
- All user interaction with the script should happen through `prompt()` and the Firebug console window.
- The program should run continuously until the user types "Exit" in "Program Main Menu".

Program Main Menu

- The program should start with the page displaying a message that `prompt()`s the user to enter either 1, 2, 3, or "Exit".
 - o The following steps dictate what will happen when the user enters a number in the `prompt()` described above

Program 1 – (User enters 1 in the Main Menu to get here)

- The program should prompt() the user to enter a String.
- If the user doesn't enter anything, the program should write "You need to enter something" to the Firebug console window and should prompt() them again to enter a String.
- If the user enters a String, the program should return to "Program – Main Menu".

Program 2 – (User enters 2 in the Main Menu to get here)

- If the user has already entered a String in step "Program 1", the program should convert the String into "Pig Language", write "String converted" to the Firebug console window, and return to "Program – Main Menu".
- If the user hasn't already entered a String in step "Program 1", the program should write "You need to first enter a String" to the Firebug console window and return to "Program – Main Menu".

Program 3 – (User enters 3 in the Main Menu to get here)

- If a String has already been converted in step "Program 2", the "Pig Language" version of the String should be written to the Firebug console window and the program should clear all Strings and return to "Program – Main Menu".
- If a String hasn't already been converted in step "Program 2", the program should write "You need to first convert your String" to the Firebug console window and return to "Program – Main Menu".

Program Exit – (User enters "Exit" in the Main Menu to get here)

- If the user enters "Exit" in the Main Menu, the program should write "Thanks for using the Pig Language Converter!" to the Firebug console window and stop executing.

Pig Language Spec

- Pig Language is similar to Pig Latin, but they are not the same!
 - o If a word is five or more letters long, add "-a" to the end of the word
 - o If a word is less than five letters long, add "-oink" to the end of the word
 - o For example: "The quick brown fox" becomes "The-oink quick-a brown-a fox-oink"

Presentation

- There are no presentation requirements for this assignment because all interaction will happen through prompt() and the Firebug console window.

Content

- The <body> of the XHTML page shouldn't contain anything.

Rubric

/20 Implementation JavaScript specs followed

/80 Functional Specs followed

-20 "Program Main Menu" doesn't work according to spec

-20 "Program 1" doesn't work according to spec

-20 "Program 2" doesn't work according to spec

-20 "Program 3" doesn't work according to spec

-100 if your assignment path and assignment file name are not exactly as requested in the "delivery method" section above. 'Exactly as requested' means your assignment folder and assignment file name must be named as requested, not contain spaces, and not contain capital letters.

-100 if any JavaScript libraries are used

/100 TOTAL