CPSC 1045: Lab 4, conditionals and inputs

Conditional statements and prompt for inputs

Introduction

An **if** statements allows the program to decide which blocks of code to execute at run-time. There are many uses for this simple mechanism two of which are:

1. Verification of input or state of the program. Often users give us inputs but if the input is not correct our program should warn the user rather than executing the program with invalid inputs.
2. Conditional execution based on input. That is to say, our program does different things based on the input provided.

References:

TextBook:
Chapter 2 upto while and do loops

Web:
http://www.w3schools.com/js/js_if_else.asp

Video:
http://www.lynda.com/JavaScript-tutorials/Working-conditional-code/81266/87524-4.html

Part 1: Drawing

Example: http://mylinux.langara.bc.ca/~kimlam/lab4/DrawSomethingo.html

Part 1(lab4a.html and lab4a.js): For part 1 you will draw an animal based on a series of **at least** 5 questions you ask the user, **at least** 3 which must be used in an conditional execution manner. Ensure that you validate the inputs and inform the user using **alert** if their input is invalid. You program should carry on with a reasonable default value if invalid input is entered.

Example questions. You **can not** use these exact questions:

- How tall is the animal?
- Does it have a tail?
  - Is it a big tail or small tail?
- Does it have cat ears?

o   Are they pointy or round?

Part 2: Quiz

Example:

For Part 2, creates the files lab4b.html and lab4b.js. For part two you will create a simple math quiz, where you display the results of the quiz onto the web-page.

Create a math quiz where:
1) The user is asked 5 math questions using **prompt**, where they will enter their answer.
   a. The numbers used in the question should change every time the user takes the test.
2) Display the result of their quiz onto the webpage including:
   a. The question
   b. The answer to the question
   c. The users answers
   d. Whether they got an answer correct or incorrect
   e. The total number of correct answers the student obtained.

Submission:
- Zip lab4a.js, lab4b.html, lab4b.js, and lab4b.html into a single file lab4.zip
- Upload to the lab4 dropbox on D2L.