CS 6314, Fall 2018
Dr. Mithun Balakrishna
Homework 2
Due October 7th, 2018 11:59 pm

A. Submission Instructions:

- Submit your solutions via eLearning.
- Please submit a single zip file with the following files:
  - Source code/script file(s).
  - A ReadMe file with instructions on how to run/access the homework.
- Late Submission Penalty:
  - up to 2 hours late — 10% deduction
  - 2 - 4 hours late — 20% deduction
  - 4 - 12 hours late — 35% deduction
  - 12 - 24 hours late — 50% deduction
  - 24 - 48 hours late — 75% deduction
  - more than 48 hours late — 100% deduction (zero credit)

B. Problems:

1. Initial Home Page (75 points)

Create an initial home page named index.html and placed in the public_html directory under your UTD student home folder. The URL to access this page will be:

http://www.utdallas.edu/~studentnetid

In the above URL, replace "studentnetid" with your own student netid.

Note: It is acceptable if the page is hosted and accessible on a non-UTD network or as a local file(s) as well.

You can create multiple HTML pages to present all the elements/attributes required by this question. However, if multiple HTML pages are used, then all pages should be anchored or tabbed in the main page (i.e. index.html)

All the HTML files should be valid and well-formed XHTML documents.

The page is to be created using a plain text editor such as WordPad, NotePad, Emacs, VI, etc. You CANNOT use any graphical web-page authoring application such as FrontPage, DreamWeaver, etc.

Please include the following components/features in your profile HTML page(s):

- A meta-tag with at least 4 keywords for search engines.
- All information in the page should be structured using the following HTML5 semantic tags:
    - \<header\>
    - \<nav\>
    - \<section\>
    - \<article\>
    - \<footer\>
- A picture showing your "interests". Create an image map with at least four (4) areas in this picture that will take the viewer to an appropriate page on Wikipedia or some other website.
    - please use a small image that is under 100 KiloBytes in size
- List your educational history using an unordered list
- List your publications, or certifications, or areas of expertise using an ordered list
- Using a table list the various courses that you have undertaken: course name, semester and year information should be provided (each in a different column)
- Create a "Contact me" form with the following elements:
    - text input box
    - checkbox
    - radio buttons
    - reset button
    - atleast five (5) HTML5 input control and validation elements
- Create an external style sheet (firststyle.css) that should customize the styles for at least ten (10) elements
    - Include atleast two (2) class based style selectors
    - Include atleast four (4) ID based style selectors
    - Include atleast two (2) class + ID combination based selectors
    - Include atleast two (2) descendant based selectors
- In your Home page, using JavaScript/JQuery, for appropriate HTML/HTML5/CSS element(s)/attribute(s), perform the below specified effect(s) when the specified event is triggered:

	Event	Effect
1	Click	Element(s) Hide, Show, and Hide/Show toggle
2	Dblclick	Element(s) FadeIn, FadeOut, FadeTo, FadeToggle
3	Mouseenter	Animate CSS with an alert popping a "Done!" message at the end of the animation
4	Mouseleave	Stop effects that were started with the Mouseenter event, however the alert stating the "Done!" message should still be shown
5	Keypress	Chain three (3) fading events

| 6 | Keydown | Chain three (3) animate events |

2. HTML/CSS Page (25 points)

Create a web page (using HTML/CSS) that renders like the image below on a web browser. Please specify which browser should be used to test your code. Image(s) should not be used in the code.

Example HTML/CSS Structure	Structure
Example 1	HTML 1 22 333
Example 2	4444 55555 666666