WEB222 Assignment 1

Submission Deadline:

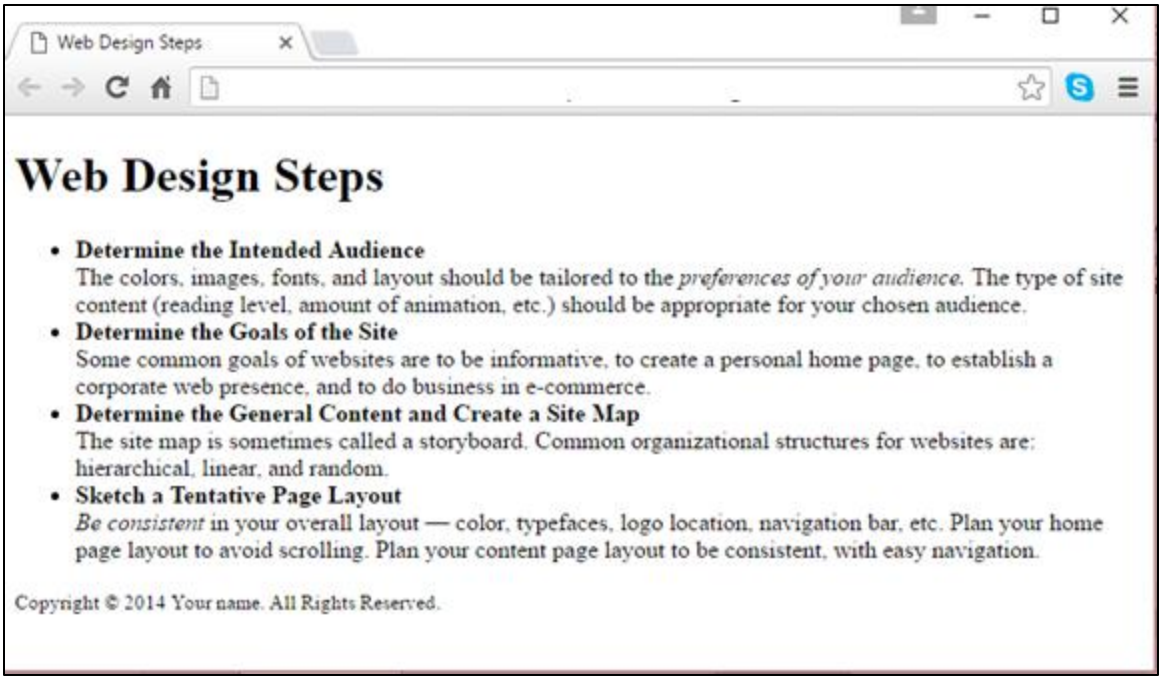
Sunday, Feb 11 @ 11:59pm

Assessment Weight:

6% of your final course Grade

Question 1) By using “Paragraph Tag”, “Heading Tag” and “Blockquote Tag”, Develop the following webpage. Save it as **ASN1-a_*yourname*.html**

By using “Heading Tag” and “List Tag”, Develop the following webpage. Save it as **ASN1-b_*yourname*.html**



Question2) Develop a HTML page as follow and develop proper JavaScript modules (function) to perform the following tasks:

a. When user clicks on the "Display current year" button, the current year will be displayed
b. When user clicks on the "Display current month" button, the current month of the year (i.e September) will be displayed.

Note: For part a and b, Please use *alert* and *console.log* and *document.getElementById()* to display the year/month .

Question3) You need to Watch the following video and answer the questions on paper and submit it in the next class. For each question, you need to briefly (in a paragraph of 2~5 lines) explain your answer by an example (JS code):

https://www.youtube.com/watch?v=5tPO0ncWN9k

1) How to create an array with "new Array()" method and instantiate some values to the array?
2) How to show all the array contents with document.write (without loop)?
3) What does happen when you assign "null" to an array element and display that element (using document.write)?
4) What is the output/main purpose of the following command

```
document.write(arrayName.join("*"))
```

5) What is the output/main purpose of the following commands

```
document.write(arrayName.lastIndexof(value));
document.write(arrayName.indexof(value));
```

6) How to merge two arrays?

Question 4) Develop "Grade Calculator" program which:

a) Ask user to enter the **number of marks**
b) Ask user to enter each mark (0~100 with decimal point) and save them into an **Array**
c) The program calculates the total and display the Average

→ Develop the program by using FOR loop.

Question5) Use Modular Programming Approach to Develop a JavaScript program which manages appointments as follow:

d) Ask user to enter his information including: First Name, Last Name and **Appointment_Day**.

e) The program will check the **Appointment_Day** with the following Available list
Available_List = {Mon, Wed, Thu}

f) if the **Appointment_Day** is match to **Available_List**, the following message displays:
`Dear ….FirstName … LastName, You appointment is set on …Appointment_Day …`

g) if the **Appointment_Day** is not match with the **Available_List**, the following message displays:
`Dear ….FirstName … LastName, We can't schedule your appointment now.`

→ Develop the program by using developing proper number of Modules (functions)

Question6) Develop a JavaScript function, name it validateZip(*zipcode*) which takes *zipcode* as input parameter and returns true if the zipcode has this pattern: alphabet-digit-alphabet-digit-alphabet-digit, and return false otherwise.

Demonstrate how this function works in NodeJS environments. (hint: you create a js file and run it using *node program.js*)

Assignment Submission:

1. Add the following declaration at the top of your HTML/CSS/Word file

```
/*********************************************************************
* WEB222 – Assignment 1
* I declare that this assignment is my own work in accordance with Seneca  Academic Policy.
* No part of this assignment has been copied manually or electronically from any other source
* (including web sites) or distributed to other students.
*
* Name: _____ Student ID: _____ Date: _____
*
*********************************************************************/
```

2. Compress (.zip) the files in your Visual Studio working directory (this is the folder that you opened in Visual Studio to create your code).

3. Record a walkthrough video and demonstrate how the assignment work.

Important Note:

- Submitted assignments must run locally, ie: start up errors causing the assignment/app to fail on startup will result in a **grade of zero (0)** for the assignment.
- **LATE SUBMISSIONS for assignments**. There is a deduction of 10% for Late assignment submissions, and after three days it will grade of zero (0).
    - In case you need any extension, you must submit the incomplete work by deadline and try to submit the complete version afterward.
- Assignments should be submitted along with a video-recording which contains a detailed walkthrough of the solution. Without recording, the assignment can get the maximum of 1/3 of the total.
    - In case you are running out of time, you can submit your project on time and submit the video-recording within 24 hours