CMPS 350 Web Development Fundamentals
Lab 3 – CSS Fundamentals

Objective

By the end of the Lab, you should be able to:
- Add internal and external **CSS styles** to your HTML pages.
- Differentiate and use important CSS **selectors, properties, and values.**
- Style a web page including font, colors, and images.
- Use the box model to style **margins** and **paddings**
- Use the flexbox and media queries to develop responsive web page layouts.

Overview

This Lab has 2 parts:
- **In Part A**, you will practice basic CSS selectors and declarations.
- **In PART B,** you will style pages to delivered desired layout and presentation.

First sync to CMPS 350 Lab repository using **GitHub Desktop** Client then copy `Lab3-CSS` folder to your **cmps350s22/repository**. At the end of the Lab sync your repo to push your work to GitHub.

Part A - CSS Basics Tutorial

1. Create a new project and named CSS Basics under `YourRepo\Lab3-CSS`
2. Inside the new project create **`styles.css`** file under a subfolder named **`styles`**. You will be using this file to practice the following CSS features:
    a. Linking style sheet to your HTML page (Internal Stylesheet, External Stylesheet, Cascading Order, ~~Inline~~)

    Complete the four exercises at the following link
    https://www.w3schools.com/css/exercise.asp?filename=exercise_howto1

    b. CSS-Syntax [selector {property : value}]

    Complete the four exercises at the following link
    https://www.w3schools.com/css/exercise.asp?filename=exercise_selectors1

    c. Border, Margins, Padding and the box model

Complete the four exercise at the following link
https://www.w3schools.com/css/exercise.asp?filename=exercise_border1

d. Text styling

Complete the four exercise at the following link
https://www.w3schools.com/css/exercise.asp?filename=exercise_text1

e. Pseudo Classes [a: link, visited, hover, focus, active]

Complete the four exercise at the following link
https://www.w3schools.com/css/exercise.asp?filename=exercise_text1

f. Background [attachment, color, image, position, repeat]

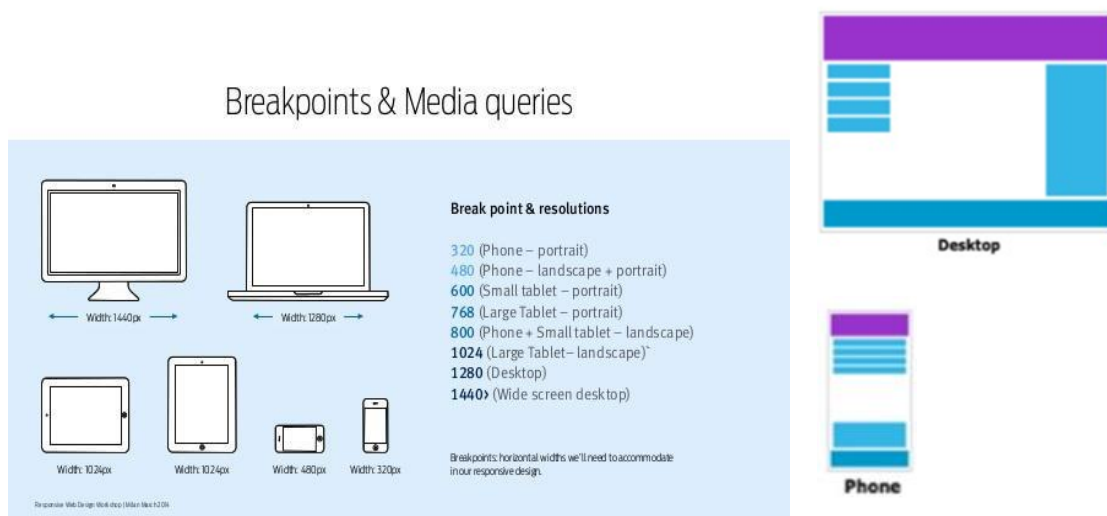Complete the four exercise at the following link
https://www.w3schools.com/css/exercise.asp?filename=exercise_backg round1

g. Font Awesome https://www.w3schools.com/icons/fontawesome_icons_text.asp

h. Flexbox https://css-tricks.com/snippets/css/a-guide-to-flexbox/

Play this game -> https://flexboxfroggy.com

i. Media Queries

Breakpoints & Media queries

Break point & resolutions

320 (Phone – portrait)
480 (Phone – landscape + portrait)
600 (Small tablet – portrait)
768 (Large Tablet – portrait)
800 (Phone + Small tablet – landscape)
1024 (Large Tablet– landscape)`
1280 (Desktop)
1440> (Wide screen desktop)

Breakpoints: horizontal widths we'll need to accommodate in our responsive design.

Width: 1440px   Width: 1280px

Width: 1024px   Width: 1024px   Width: 480px   Width: 320px

Desktop

Phone

You can use the following links to further practice

• https://www.w3schools.com/css/default.asp
• https://htmlcheatsheet.com/css/

Part B – Page Layout

You are given the HTML code for the below webpages
1. Open the **Lab3-CSS/Page-Layout** folder using **Webstorm**.
2. The folder contains two files [**index.html, contact-us.html**]
3. Style index.html to deliver a layout and presentation like the image below.
   - Use media queries to make the webpage responsive by providing 2 columns, 3 columns and 4 columns layouts based on the screen size.
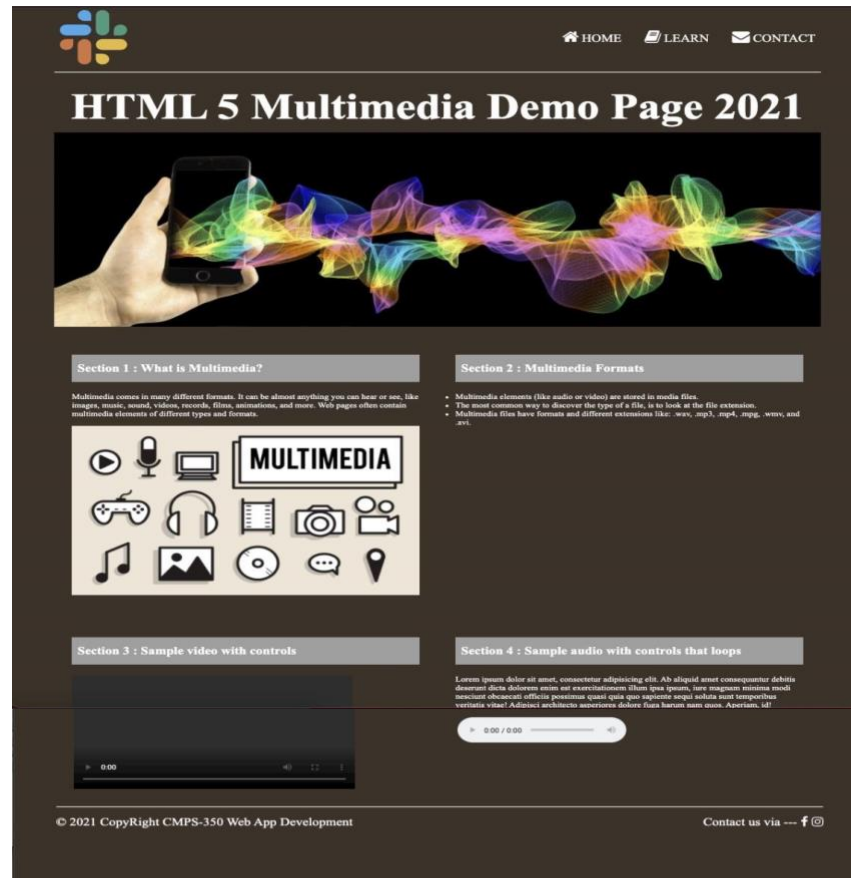

Figure 1 : Smaller screen
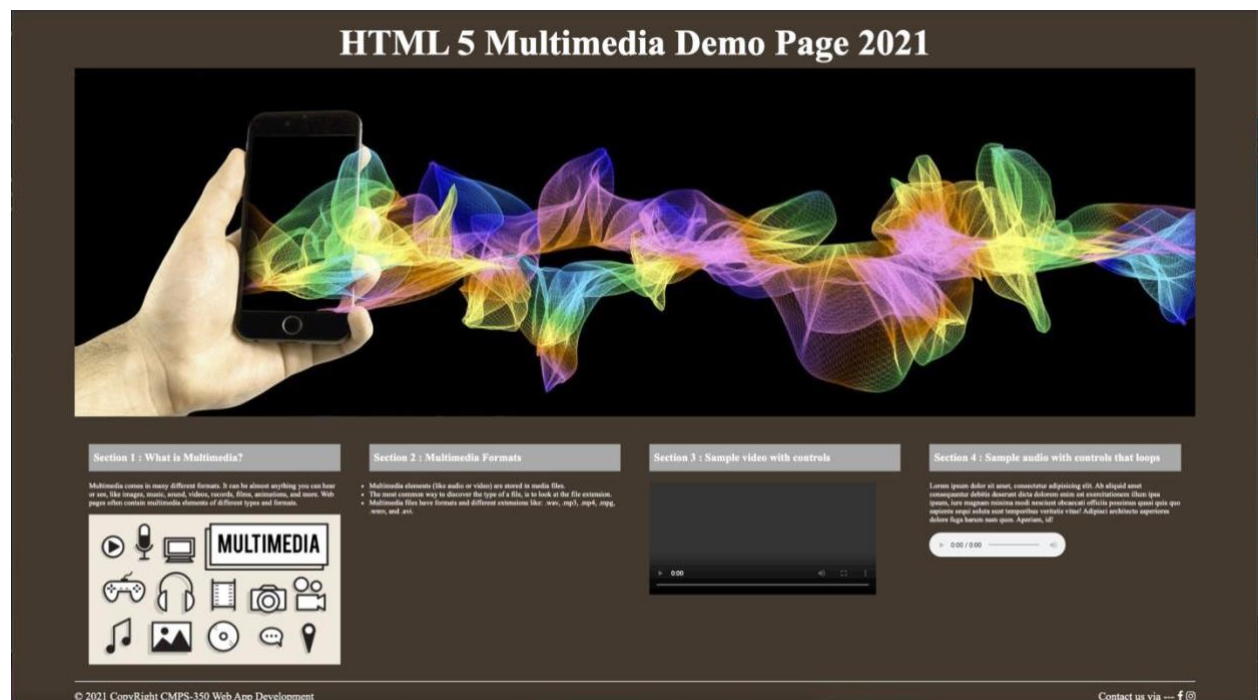
Figure 2 : tablets (mid-size) screens

Figure 3 : Larger Screens

4. Style **the contact-us** form as follows. You should create a separate stylesheet for the contact us form.