**Day 1 Lab Assignments**

1. Make a Demo in Sass in any page.
   1. Try scss syntax: variables, mixins, nesting, inheritance,…
      1. Use parent selector, to define the hover action for these classes.
      2. Make a @for that makes a random color and return it
      3. What’re the differences between mixins and functions?
   2. Make partial files, and import them in your main style file
   3. Compile it using command line and using online editor.
   4. Try watch.
   5. Link the generated css to your HTML page.
   6. Try @If(), @each. **[Bonus]**

**Bonus:**

1. Use Bootstrap SASS variables to change the default bootstrap grid columns count from 12 to 16.
2. What’s BEM? Explain using Demo.
3. What’s Material design? Explain using Demo.
4. What are front-end build tools (GULP, Webpack,…)? Explain using demo.
5. Implement as you can from the following templates:
   1. <https://www.w3schools.com/bootstrap/trybs_theme_company_full.htm>
   2. <http://www.w3schools.com/w3css/tryw3css_templates_analytics.htm>
   3. <http://www.w3schools.com/w3css/tryw3css_templates_apartment_rental.htm>
   4. <http://www.w3schools.com/w3css/tryw3css_templates_dark_portfolio.htm>
   5. <http://www.w3schools.com/w3css/tryw3css_templates_clothing_store.htm>
   6. <http://www.w3schools.com/w3css/tryw3css_templates_bw_portfolio.htm>
6. Try other responsive frameworks (Foundation, Skelton, W3CSS,…), and compare it with Bootstrap.
7. Try Other CSS pre-processor (like: Less) and compare it to SASS.

**<Thank>YOU </Thank>**