

Create a new word document for this homework named **LABX-MUId.docx** (example: **LAB6-johnsok9.docx**).

Objective: The objective of this exercise is to:

1. Learn and implement Bootstrap responsive library
2. Work on good looking web pages

Submit: screenshots, your word document, html file (with .html extension), css file and a link to your web page

You **may** discuss the concepts with your fellow students

Part #1: Bootstrap Tutorial

Estimated time: 30 minutes

Option 1: W3Schools Tutorial

Exercise: Use the class PowerPoint and getbootstrap.com as reference material. Use the W3 schools bootstrap tutorial to feel comfortable with the concepts.

<https://www.w3schools.com/bootstrap4/>

1. Review the bootstrap information
2. Make sure you understand enough to implement the assignment
3. 3 screen grabs showing tutorial

Option 2: You are already an expert

Exercise: If you are already an expert – then write me a paragraph explaining what you have done which made you an expert. I enjoy these – make it good.

Part #2: Create a gridded web page

Estimated time: 30 minutes

Exercise:

- Create a web page using bootstrap (start with the template below)

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- Bootstrap CSS -->
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
F3w7mX95PdgyTmZZMECAngseQB83DfGTowi0iMjiWaeVhAn4FJkqJByhZMI3AhiU"
crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>

    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.bundle.min
.js"
integrity="sha384-/bQdsTh/da6pkI1MST/rWKFNjaCP5gBSY4sEBT38Q/9RBh9AH40zEOg7Hlq2
THRZ" crossorigin="anonymous"></script>
  </body>
</html>
```

- Create a web page with three rows
 - Row1
 - Column of width 3
 - Paragraph of text
 - Column of width 5
 - Picture (100 X 150) with caption
 - Column of width 4
 - Paragraph of text
 - Row 2
 - Column of width 8
 - Paragraph of text
 - Column of width 4
 - Picture (200 X 200) with caption
 - Row 3
 - Column of width 8
 - Paragraph of text
 - Column of width 4
 - Picture (300 X 300) with caption
- Verify that it degrades nicely
 - Screen grab full size (shrink page if needed for picture)
 - Screen grab at half size
 - Screen grab at phone width

SUBMIT:

- Screenshots
 - Three screenshots showing web page at full size, half size and phone (smallest possible width)
 - Tutorial or expert paragraph
- File
 - Attach the html file
- Paste the URL to your page into the submission as a comment
 - Note: use <https://ceclnx01.cec.miamioh.edu> as the base address