ENME 303 Fall 2021: LAB Assignment

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Week 2: Control Flow I

Exercise	01	02	03
Points	15	15	10

## 01. Exercise 1: Leap Year

- a. Write a script that asks the user for a year and determines and displays whether or not that year is a leap year The output should be formatted using fprintf to display answers
  - i. Hint, use mod()

#### 02. Exercise 2: Tea Time

a. Use the table below to write the following script: ask the user if they'd like a cup of tea. If so, ask which type and let them know how long it'll need to brew for. The output should be formatted using fprintf to display answers

Теа Туре	Celsius	Fahrenheit	Brewing Time
White Tea	65-70ºC	150-155ºF	1-2 min.
Green Tea	75-80ºC	165-175ºF	1-2 min.
Oolong Tea	80-85ºC	175-185ºF	2-3 min.
Black Tea	100ºC (boiling)	210ºF	2-3 min.
Herbal Tea	100ºC (boiling)	210ºF	3-6 min.

### b. Hints:

- i. <u>Inputting string</u> from the user
- ii. Comparing string in an if statement

### 03. Exercise 3: Switch

- a. Repeat exercise 'Tea Time' using a switch statement
  - i. Hint

# Lab etiquette:

- The above exercises should each be their own section in the same .m file (the naming convention in the lab slides)
- Add your credentials to the top of your script:

```
%-----%Author:Karla Negrete
%UMBC ID: MQ31578
%Course: ENME 303, Lab Week 1
%Description: Lab Assignment 1
%-----
```

- All assignments must be submitted to Blackboard (no exceptions, even late assignments). Each assignment allows 2 submissions. Double-check your script file before submitting
- Add comment lines between exercises (% in MATLAB) and comment on all logic in your code. Comments should be above or to the right of the code they are explaining