**Exercise 1 - Install Docker and VSCode Docker Extension**

[Docker Desktop Installation](https://www.docker.com/get-started) (for Windows 10 Professional and Mac)

[Docker Toolbox Installation](https://docs.docker.com/toolbox/)  (for Windows 10 Home and older versions of Windows)

[VSCode Docker Extension](https://marketplace.visualstudio.com/items?itemName=PeterJausovec.vscode-docker)

Run the following Docker command to ensure Docker has been installed:

**docker --version**

**For the following exercises you'll be working through the lab found at:**[Docker Lab](https://github.com/docker/labs/tree/master/beginner/)

**Exercise 2 - Hello World**

Since you have already installed Docker above you only need to do the following in the "Setup" step of the Docker lab:

Share your drive(s) (only if you are using Docker for Windows).

Run the hello-world.  
  
You can read through the other documentation in the "Setup" step if you want.

**Exercise 3 - Running a Container**

Read and work through step 1.0 in the Docker lab.

Let me know if you have any questions (how to do something, what's happening, etc.) or run into problems.

**Exercise 4 - Sample Web Application in a Container**

Note: When the lab mentions "Docker Store" it is synonymous with what I refer to as "Docker Hub".

Do 2.1 of step 2.0 in the Docker lab.

Do 2.2 of step 2.0 in the Docker lab.

**Exercise 5 - Your Web Application in a Container**

Do 2.3 of step 2.0 in the Docker lab with the following exceptions.

1. Replace the steps in 2.3.1 with the following:

Copy the folders/files from your week1 folder to a week2 folder.

2. Replace the steps in 2.3.2 with the following:

Copy the nginx folder and the Dockerfile from the week2/app1 folder in [my GitHub repo](https://github.com/oit-gaden/Web-Development-2019-Winter/tree/master/Examples) to your week2 folder.

Proceed with 2.3.3 through 2.3.4

There are two 2.3.4 sections.  
Use port 80 instead of port 5000 in the docker run command.

Email me a URL to your Docker Hub/Store registry account.  I should be able to pull your image, run it and view your Web application.

You can do the Flask application example if you want for 20 points extra credit.  I highly recommend trying it as it will give you more  
understanding of Dockerfiles.

**Exercise 6 - If you want, explore the VSCode Docker extension to see what you can do with it.**