**CSC 343: Big Data Programming and Management**
**Docker Setup and Testing**

1. Sign up for a free Docker Hub account at https://hub.docker.com/

2. If working on your own computer, install Docker by clicking on the appropriate download link from https://www.docker.com/get-started

3. Open a terminal or command prompt, and follow the Course Introduction notes to do the following:

   a. Download the *centos* image and run a bash shell in a new container from this image. Find the name of this container.

   b. In your container, create a file named *me.txt* that contains your name by executing the following command in a bash shell (using your name instead of mine):

      ```
      echo "Garrett Dancik" > me.txt
      ```

   c. Create an image from this modified container that has the name *gdancik/centos* where *gdancik* is your Docker Hub username. Save (push) this image to your Docker Hub.

   d. Verify that you have created an image that contains the file *me.txt* with your name, by running the following command:

      ```
      docker run -it gdancik/centos cat me.txt
      ```

      (The above statement runs the command *"cat me.txt"* in a new container. The command *cat* is a command that concatenates and prints the contents of 1 or more files)

   e. Verify that your image has been saved to your Docker Hub, by going to the following site, replacing *gdancik* with your username https://hub.docker.com/r/gdancik/centos

4. Note: for more information on docker commands, use the --help tag, e.g.

   ```
   docker --help
   docker run --help            (there are a lot of options here)
   docker ps --help
   ```