ELL887 (CLOUD COMPUTING)-ASSIGNMENT 1
By: Ritika Soni (2020MT10838)

Question 1.

Initially, I created a Dockerfile aimed at customizing the Apache server to exhibit the message "*Hello World! I am RITIKA SONI*" within a repository named "q1". Subsequently, within the repository accessed via Windows PowerShell, I executed the following commands:

docker pull httpd
docker build -t custom-apache .
docker run -d -p 80:80 custom-apache

Then, whenever I pressed " http://localhost/ELL887 ", it directed me to a page displaying the desired output. I have submitted the *Dockerfile* within the zip file (assignment1) inside folder "q1".

Question 2.

I created a "q2" directory that contains a Dockerfile and the C++ file "*main.cpp*". The provided Dockerfile defines the steps to create a Docker image for compiling and running a C++ program using a GCC image from Docker Hub. The following commands are run on Windows PowerShell.

Commands for running a C++ program and creating its image:
cd q2
docker build . -t ass1_q2:1
docker run -it ass1_q2:1

Commands for pushing the image into the "ell887" repository in Docker Hub:
docker login
docker images
docker tag ass1_q2:1 ritika01/ell887
docker push ritika01/ell887

This created a repository named "ell887" in my Docker Hub account with the username "*ritika01*". I have submitted the *Dockerfile* and *the C++ file* within the zip file (assignment1) inside folder "q2".

Here is the link to my repository:
https://hub.docker.com/repository/docker/ritika01/ell887/general