Assignment 1:

Suppose you have a container running an application in production, and you need to debug an issue that occurred in the past. However, you cannot reproduce the issue in a test environment. To investigate the issue, you want to capture the current state of the running container and save it as an image that you can use to create a new container for debugging purposes.

Solution:

1. Identify the container ID of the running container that you want to snapshot by running the command **docker ps** and looking for the container name or ID.
2. Run the command **docker commit <container\_id> <image\_name>** to create a new image from the running container. Replace **<container\_id>** with the ID of the container that you want to snapshot, and **<image\_name>** with a name for the new image that you want to create.
3. Verify that the new image has been created by running the command **docker images**. You should see the new image listed in the output.
4. Use the new image to create a new container with the same state as the original container by running the command **docker run <image\_name>**. Replace **<image\_name>** with the name of the new image that you created in step 2.
5. Use the new container to debug the issue that occurred in the past.