docker build:

- Command: docker build -t <image name> <path to Dockerfile>
- Explanation: Builds a Docker image from a Dockerfile located at the specified path (<path_to_Dockerfile>) and tags it with the provided name (<image_name>). The -t flag is used to specify the image name and tag.

docker run:

- Command: docker run <image name>
- Explanation: Creates and starts a new container based on the specified Docker image (<image_name>). This command runs the default command specified in the Dockerfile's CMD instruction.

docker pull:

- Command: docker pull <image name>
- Explanation: Pulls a Docker image from a registry (such as Docker Hub) to the local machine. This command downloads the specified image if it's not already available locally.

docker push:

- Command: docker push <image name>
- Explanation: Pushes a Docker image from the local machine to a registry (such as Docker Hub). This command uploads the specified image to the registry so that it can be accessed and pulled by others.

docker ps:

- Command: docker ps
- Explanation: Lists all running containers. This command provides information such as the container ID, names, status, and ports.

docker images:

- Command: docker images
- Explanation: Lists all Docker images available on the local machine.
 This command provides information such as the image ID, repository, tag, and size.

docker stop:

- Command: docker stop <container id>
- Explanation: Stops a running container specified by its ID
 (<container_id>). This command sends a SIGTERM signal to the
 container, giving it time to shut down gracefully.

docker rm:

- Command: docker rm <container id>
- Explanation: Removes a stopped container specified by its ID
 (<container_id>). This command permanently deletes the container,
 freeing up resources.

docker rmi:

- Command: docker rmi <image_id>
- Explanation: Removes a Docker image specified by its ID (<image_id>). This command permanently deletes the image from the local machine.