**Docker :**

1. Create a docker image using a scratch base image and install java and maven.

2. Run a docker container using the above image , providing the entrypoint command in the docker run command (the entrypoint command should keep the container running)

3. Use Alpine as base image in a dockerfile and install python and execute a python script while the container is run.

4. Use Centos as base image in a dockerfile and install git, clone a git repo.

5. Build a docker images sending any two input variables inside and accessing them in the dockerfile , print them while image building.

**Docker-Compose:**

1.Create a docker compose with 1. Postgresql docker container ( with volumes - for data backup) ( do not expose the postgresql on the host) 2.a container containing postgresql - sql script executing in its Entrypoint. It should connect to a postgresql container within its docker-compose network.

2. Create a Network and use the Network in the above docker-compose, assign hostnames for the services created in the above docker compose and use the hostnames for connecting to them inside the network ( like the connection from the service container to the postgresql should use the hostname assigned to postgresql container while connecting)

Refer to official documentations : <https://docs.docker.com/get-started/>