➢ **Docker directives**
● **FROM** Base image
● **MAINTAINER** Mail of owner
● **RUN** Commands to be executed as a part of building image as Layers
● **USER** Create Image as non-privileged user
● **ENV** Creates environment variables
● **CMD** Executes the when container build does not creates the Layers & can be overridden
● **ENTRYPOINT** Default Application cannot be overridden
● **EXPOSE** Ports should be gets out of the container

➢ **Docker commands**
● To enter into the container - **docker run -it imagename /bin/bash**
● To run docker background - **docker start container name**
● To login as root user if non privileged user specified in the docker file - **docker exec -u 0 -it container name /bin/bash**
● To execute the commands in container - **docker exec container /bin/bash command**
● To expose the ports manually - **docker run -d --name name -p port:container port imagename**
● To automatically expose to container ports and mapped to the host - **docker run -d --name name -P imagename** (port should be exposed in dockerfile)
● To create the container mount volumes from image - **docker run -it --name name -v /dir image name** (This mount volumes are sharable same file systems to multiple containers)
● Location of the mount volumes in the local machine - **/var/lib/docker/volumes/specfiedhexadir/_data/**
● To deploy to the data to the container mount point - **docker run -it --name name -v localdir:/conatinerdir imagename**
● To create the network - **docker network create --driver bridge scott**
● To create network with subnet & gateway - **docker network create --driver bridge --subnet=192.168.0.0/16 --gateway=192.168.0.10 sagar**
● Network in the specific ip range - **docker network create --driver bridge --subnet=192.168.0.0/16 --gateway=192.168.0.10 --ip-range=192.168.5.0/24 scott**
● Assigning to custom network to the containers - **docker run -it --name scottnet --net scott centos:latest**