Playing around with Docker

This repo is me learning docker and testing it out. The test docker image is hosted on docker.

Things I learnt during this exercise:

- What is Docker
- How it works
- What are containers
- What are images
- How to pull images
- How to build custom images using `Dockerfile`
- What is docker-compose
- How to orchestrate multiple container dependencies using `docker compose up`
- What are volumes
- How docker networking works
    - Bridge network
    - Host network
    - Custom networks
    - Pinging containers with name or IP
- Mounting volumes for non-volatile storage and sharing of data
- Port mappings (not required for host network)
- Docker Desktop
- Dockerhub
- How to push images to dockerhub
- Layering of dockerfile
- Caching of layers
- Optimizing layers for caching
- Multi-stage builds
    - Splitting image into multiple stages
    - Build stage and runner stage
    - COPY –from=build
    - WORKDIR
- Buildx from BuildKit
    - correct dependency resolution of multi-stage

Run it

Run it using two steps

```
docker pull sayang2001/docker-node:latest
docker run -it -p 8000:8000 sayang2001/docker-node:latest
```