# 오픈소스기초설계 - Assignment#4 Docker 실습 과제

### 실습 내용:

### 실습 #1:

```
C:\Users\qortj>docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
719385e32844: Pull complete
Digest: sha256:c79d06dfdfd3d3eb04cafd0dc2bacab0992ebc243e083cabe208bac4dd7759e0
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.
To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/
For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

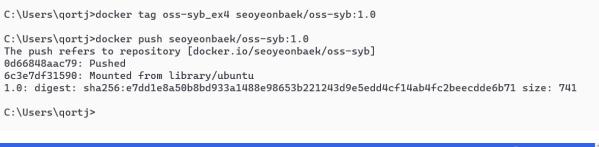
## 버전 확인, 기능 테스트를 완료하였다.

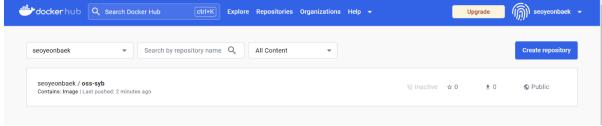
### 실습 #2:

```
root@a868bb649e88:/# exit
C:\Users\qortj>docker ps -a
CONTAINER ID
               IMAGE
                               COMMAND
                                              CREATED
                                                                STATUS
                                                                                              PORTS
                                                                                                         NAMES
               ubuntu:20.04
                                              27 minutes ago Exited (0) 15 seconds ago Exited (0) 44 minutes ago
                                "/bin/bash"
                                                                                                         Ubuntu20
a868bb649e88
e5c982cee611
               hello-world
                                                                                                         adoring_gagarin
C:\Users\gortj>docker start a868bb649e88
C:\Users\qortj>docker attach a868bb649e88
root@a868bb649e88:/# python test.py
hello docker
root@a868bb649e88:/#
```

exit을 이용하여 root에서 벗어난 뒤, ps -a로 현재 파일 현황을 살펴보고 다시 root로 진입하여 test.py 파일 내용을 살펴보는 코드를 작성하였다.

#### 실습 #3:





도커 환경을 배포하기 위한 코드를 입력하였다. tag, push 코드를 이용하여 repository에 파일을 push하였다.

## 실습 #4:

```
C:\Users\qortj>docker run -it --name Ubuntu20 seoyeonbaek/oss-syb:1.0
root@3dc357645823:/# python test.py
hello docker
root@3dc357645823:/# exit
exit
C:\Users\qortj>
```

앞서 배포한 도커 환경을 run -it -name을 이용하여 검증하였다.

### 실습 #5:

Dockerfile를 활용하였다. build -t, docker run코드를 이용하여 docker repository에 있는 파일의 내용을 열람하였다.