EXPERIMENT - 6 (Docker Link)

Name: Ankur Roll No: R171218023

Open the terminal and run a postgres container by the command 'docker run - it -d –name db training/postgres'.

```
Terminal +

The state of the st
```

Once the command execution is complete and the pulling of the image gets over, run another container of image webapp linking it with the db container we just created by the command 'docker run -it -d –name web –link db:mydb training/webapp'.

```
$ docker run -it -d --name web --link db:mydb training/webapp
Unable to find image 'training/webapp:latest' locally
latest: Pulling from training/webapp
e190868d63f8: Pull complete
909cd34c6fd7: Pull complete
009bfabab7c1: Pull complete
a3ed95caeb02: Pull complete
10bbbc0fc0ff: Pull complete
fca59b508e9f: Pull complete
fca59b508e9f: Pull complete
e7ae254lb15b: Pull complete
9dd97ef58ce9: Pull complete
a4clb0cb7af7: Pull complete
a4clb0cb7af7: Pull complete
bigest: sha256:06e9c1983bd6d5db5fba376ccd63bfa529e8d02f23d5079b8f74a616308fb1ld
Status: Downloaded newer image for training/webapp:latest
aaa49f53d300cc7583b6lce577b510563c36191e96f56f84le07f9f8a0e1b8e5
```

When the other image is pulled completely and the container is running then switch to the terminal of the container by using 'docker exec -it web bash'. After logging, ping the container with which we linked the current container

```
$ docker exec -1t web bash
root@aaa49f53d300:/opt/webapp# ping db
PING mydb (172.18.0.2) 56(84) bytes of data.
64 bytes from mydb (172.18.0.2): icmp_seq=1 ttl=64 time=0.112 ms
64 bytes from mydb (172.18.0.2): icmp_seq=2 ttl=64 time=0.078 ms
64 bytes from mydb (172.18.0.2): icmp_seq=3 ttl=64 time=0.066 ms
64 bytes from mydb (172.18.0.2): icmp_seq=4 ttl=64 time=0.082 ms
64 bytes from mydb (172.18.0.2): icmp_seq=5 ttl=64 time=0.066 ms
64 bytes from mydb (172.18.0.2): icmp_seq=6 ttl=64 time=0.095 ms
64 bytes from mydb (172.18.0.2): icmp_seq=6 ttl=64 time=0.062 ms
64 bytes from mydb (172.18.0.2): icmp_seq=8 ttl=64 time=0.062 ms
```

Now run another container without linking it to any of the previous containers and check all the containers with the command 'docker ps'.

Login to the container again with which we ran the ping command once and try pinging the newly created container, the ping command will fail because the container isn't linked with the other container.

