EXPERIMENT 2

AIM: Working with Docker (Basic Commands)

Steps to Complete:

1. Search a Redis image on DockerHub

Solution:

Command: docker search redis

```
C:\Users\Administrator>docker search redis
NAME                          DESCRIPTION                                  STARS
redis                         Redis is an open source key-value store that…  11211
bitnami/redis                 Bitnami Redis Docker Image                   227
bitnami/redis-sentinel        Bitnami Docker Image for Redis Sentinel      39
bitnami/redis-cluster                                                      34
rapidfort/redis               RapidFort optimized, hardened image for Redi…  15
rapidfort/redis-cluster       RapidFort optimized, hardened image for Redi…  15
circleci/redis                CircleCI images for Redis                    14
redis/redis-stack             redis-stack installs a Redis server with add…  10
```

2. Run Docker Container of Redis Image in background

Command: docker run -d redis

Command: docker ps

```
C:\Users\Administrator>docker run -d redis
Unable to find image 'redis:latest' locally
latest: Pulling from library/redis
1efc276f4ff9: Pull complete
adf5288e41ff: Pull complete
2f387b0b685f: Pull complete
1b3d2bd4ccba: Pull complete
937c39fc1973: Pull complete
751dcbc45baa: Pull complete
Digest: sha256:9bc34afe08ca30ef179404318cdebe6430ceda35a4ebe4b67d10789b17bdf7c4
Status: Downloaded newer image for redis:latest
2de2df9203cc9d52729108e23a4925f5095f13662c596500bee453758ebe5e49

C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>docker ps
CONTAINER ID   IMAGE    COMMAND              CREATED         STATUS         PORTS       NAMES
2de2df9203cc   redis    "docker-entrypoint.s…"  7 seconds ago   Up 5 seconds   6379/tcp    dazzling_raman

C:\Users\Administrator>
```

3. Run Docker PS and Docker PS –a

```
C:\Users\Administrator>docker ps -a
CONTAINER ID   IMAGE   COMMAND               CREATED          STATUS          PORTS       NAMES
2de2df9203cc   redis   "docker-entrypoint.s…"  56 seconds ago   Up 55 seconds   6379/tcp    dazzling_raman
```

4. Run Docker Container and take its console

Command: docker run -it redis /bin/bash

```
C:\Users\Administrator>docker run -it redis /bin/bash
root@4e7da51ebf4b:/data# ls
root@4e7da51ebf4b:/data#
```

5. Create a Docker Volume and connect it

Command: docker run -it -v myvol:/data redis /bin/bash


```
C:\Users\Administrator>docker run -it -v myvol:/data redis /bin/bash
root@b55ee08d0cac:/data# mkdir abcd
root@b55ee08d0cac:/data# ls
abcd
root@b55ee08d0cac:/data# exit
exit

C:\Users\Administrator>docker run -it -v myvol:/data redis /bin/bash


root@aa147d1598ff:/data#
root@aa147d1598ff:/data#
root@aa147d1598ff:/data# ls
abcd
root@aa147d1598ff:/data# exit
exit

C:\Users\Administrator>docker --version
Docker version 20.10.17, build 100c701
```


\\wsl$\docker-desktop-data\data\docker\volumes