Experiment -13

Aim: Prepare and Implement Docker Container Restart Policy.

1. Launching an instance using the following command

```
$ docker run -d --name restart-default scrapbook/docker-restart-example
Unable to find image 'scrapbook/docker-restart-example:latest' locally
latest: Pulling from scrapbook/docker-restart-example
e190868d63f8: Pull complete
909cd34c6fd7: Pull complete
0b9bfabab7c1: Pull complete
a3ed95caeb02: Pull complete
89132a5c7e46: Pull complete
Digest: sha256:426b72cb24b716bb4b018cb4ea87b9d65df89d5320ec50bf9ccc3c2c6f99b5ca
Status: Downloaded newer image for scrapbook/docker-restart-example:latest
9cd3ade926477e66de1d0947ad54f7a25ec5ea7db50fb67504cac6c6b308ca9b
```

2. List all the containers

```
$ docker ps -a
CONTAINER ID        IMAGE                                    COMMAND              CREATED
  STATUS                      PORTS                NAMES
9cd3ade92647        scrapbook/docker-restart-example    "/bin/sh -c ./launch…"  8 seconds ago
  Exited (1) 5 seconds ago                         restart-default
```

3. The logs will output a message.

```
$ docker logs restart-default
Wed May 5 05:29:37 UTC 2021 Booting up...
```

4. Docker will restart the container three times before stopping.

```
$ docker run -d --name restart-3 --restart=on-failure:3 scrapbook/docker-restart-example
ae41a31a73f44958788bf3b019e0e9cd7fc80aee370d592732b274657d1aaec5
$ docker logs restart-3
Wed May 5 05:30:13 UTC 2021 Booting up...
Wed May 5 05:30:14 UTC 2021 Booting up...
```

5. Using the always flag to automatically restart the container when it crashes.

```
$ docker run -d --name restart-always --restart=always scrapbook/docker-restart-example
b550d5a041b52cca7b74391e767f9dff56dea710a0bdc4fc423cb86435129354
$ docker logs restart-always
Wed May 5 05:30:19 UTC 2021 Booting up...
Wed May 5 05:30:21 UTC 2021 Booting up...
$
```