```
C:\Users\carld\Documents>mkdir .\lab11_Docker

C:\Users\carld\Documents>cd .\lab11_Docker

C:\Users\carld\Documents\lab11_Docker>touch Dockerfile
'touch' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\carld\Documents\lab11_Docker>echo. > Dockerfile

C:\Users\carld\Documents\lab11_Docker>notepad Dockerfile
```

Creating the directory and the dockerfile and opening it in notepad

```
C:\Users\carld\Documents\lab11_Docker>dir
 Volume in drive C has no label.
 Volume Serial Number is 0ACA-F205

 Directory of C:\Users\carld\Documents\lab11_Docker

2023-11-25  08:56 PM    <DIR>          .
2023-11-25  08:56 PM    <DIR>          ..
2020-11-17  07:23 PM               673 app.py
2023-11-25  08:55 PM               519 Dockerfile
2023-11-25  08:55 PM            10,566 Lab11_MakeDocker.PNG
2020-11-17  07:33 PM               179 ReadMe.md
2020-11-16  08:31 PM                11 requirements.txt
               5 File(s)         11,948 bytes
               2 Dir(s)  86,925,402,112 bytes free
```

Listing all the required files in the directory
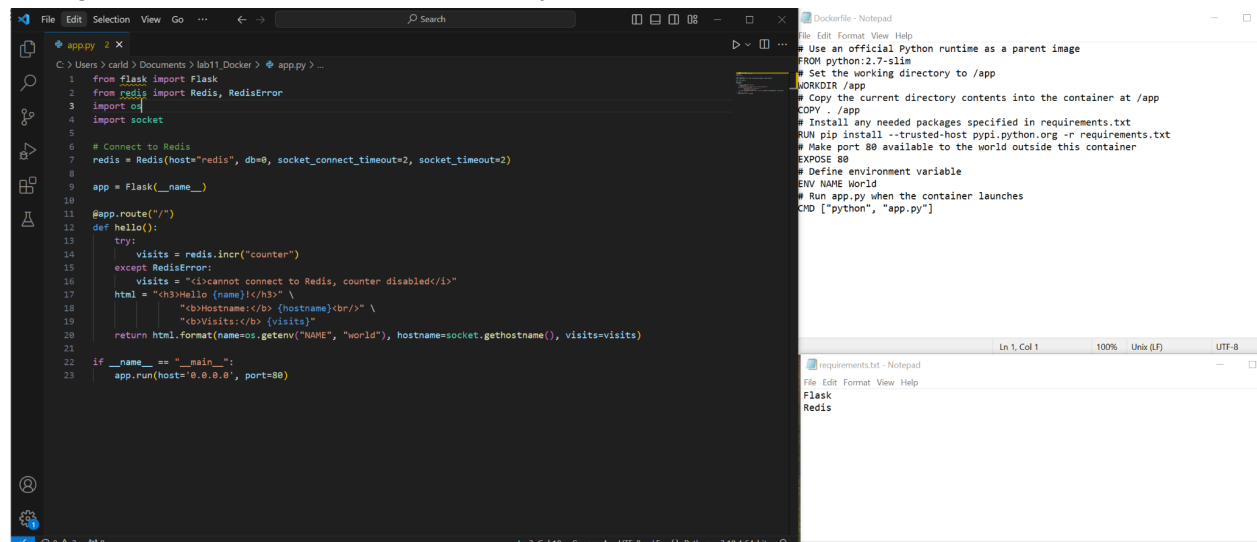
These are the files

```
C:\Users\carld\Documents\lab11_Docker>docker build --tag=hellodocker .
[+] Building 25.2s (10/10) FINISHED                                                                docker:default
 => [internal] load .dockerignore                                                                            0.1s
 => => transferring context: 2B                                                                              0.0s
 => [internal] load build definition from Dockerfile                                                         0.1s
 => => transferring dockerfile: 558B                                                                         0.0s
 => [internal] load metadata for docker.io/library/python:2.7-slim                                           1.2s
 => [auth] library/python:pull token for registry-1.docker.io                                                0.0s
 => [1/4] FROM docker.io/library/python:2.7-slim@sha256:6c1ffdff499e29ea663e6e67c9b6b9a3b401d554d2c9f061f9a45344e3992363   18.4s
 => => resolve docker.io/library/python:2.7-slim@sha256:6c1ffdff499e29ea663e6e67c9b6b9a3b401d554d2c9f061f9a45344e3992363    0.0s
 => => sha256:6c1ffdff499e29ea663e6e67c9b6b9a3b401d554d2c9f061f9a45344e3992363 1.86kB / 1.86kB                0.0s
 => => sha256:b68d40df862ac07e8955ea0fc0c5454cb4245b6165e79bc8ea2cc69170d9ba62 1.16kB / 1.16kB                0.0s
 => => sha256:eeb27ee6b89303f04a917e457eda70d032b1574ec80d0b4ea410d478a714538f 7.95kB / 7.95kB                0.0s
 => => sha256:123275d6e508d282237a22fefa5aef822b719a06496444ea89efa65da523fc4b 27.10MB / 27.10MB             8.8s
 => => sha256:dd1cd66375238ded36eeaea07567a1997f7fd76611a517119ec39fee9b9e887f 2.75MB / 2.75MB               1.3s
 => => sha256:0c4e6d630f2cb5403efb04352c40ed72f1884355253a0cc15486c4e6ca998111 19.66MB / 19.66MB            8.3s
 => => sha256:13e9cd8f0ea14403e44c745ea5212658b6600021f6beb6fc484f2570db89b143 2.18MB / 2.18MB               4.3s
 => => extracting sha256:123275d6e508d282237a22fefa5aef822b719a06496444ea89efa65da523fc4b                     5.4s
 => => extracting sha256:dd1cd66375238ded36eeaea07567a1997f7fd76611a517119ec39fee9b9e887f                     0.2s
 => => extracting sha256:0c4e6d630f2cb5403efb04352c40ed72f1884355253a0cc15486c4e6ca998111                     2.5s
 => => extracting sha256:13e9cd8f0ea14403e44c745ea5212658b6600021f6beb6fc484f2570db89b143                     0.8s
 => [internal] load build context                                                                            0.0s
 => => transferring context: 217.64kB                                                                        0.0s
 => [2/4] WORKDIR /app                                                                                       0.2s
 => [3/4] COPY . /app                                                                                        0.0s
 => [4/4] RUN pip install --trusted-host pypi.python.org -r requirements.txt                                 4.9s
 => exporting to image                                                                                       0.1s
 => => exporting layers                                                                                      0.1s
 => => writing image sha256:96dfc015d4b82eddc4568009ee413bca18881a90afe1ef5f2b063fe3281211ad                 0.0s
 => => naming to docker.io/library/hellodocker                                                               0.0s

What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview

C:\Users\carld\Documents\lab11_Docker>
```

Using the dockerfile to build an image

```
What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview

C:\Users\carld\Documents\lab11_Docker>docker run -p 4000:80 hellodocker
 * Serving Flask app "app" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on http://0.0.0.0:80/ (Press CTRL+C to quit)
172.17.0.1 - - [26/Nov/2023 02:14:48] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [26/Nov/2023 02:14:49] "GET /favicon.ico HTTP/1.1" 404 -

C:\Users\carld\Documents\lab11_Docker>docker container ls
CONTAINER ID   IMAGE      COMMAND     CREATED     STATUS     PORTS       NAMES

C:\Users\carld\Documents\lab11_Docker>
```

Running the container and closing it (with Ctrl C). Also checking to see if it is still running
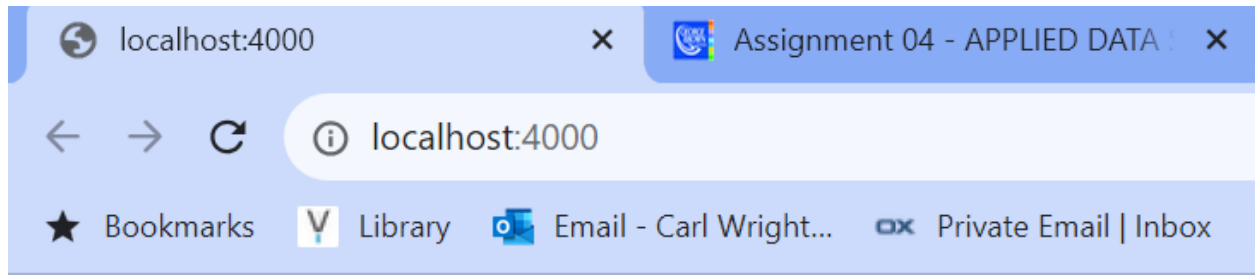
The result of the running instance of the container