Experiment 12

Aim: Build Docker Image using .Dockerignore file.

1) Checking the contents of dockerfile

```
$ cat Dockerfile
FROM alpine
ADD . /app
COPY cmd.sh /cmd.sh
CMD ["sh", "-c", "/cmd.sh"]
$
```

2) Building image

```
$ docker build -t password .
Sending build context to Docker daemon   4.096kB
Step 1/4 : FROM alpine
 ---> 11cd0b38bc3c
Step 2/4 : ADD . /app
 ---> caee522de31a
Step 3/4 : COPY cmd.sh /cmd.sh
 ---> 585e94f90067
Step 4/4 : CMD ["sh", "-c", "/cmd.sh"]
 ---> Running in 3cadeeb439d2
Removing intermediate container 3cadeeb439d2
 ---> 902be6e23932
Successfully built 902be6e23932
Successfully tagged password:latest
$
```

3) Checking the app folder

```
$ docker run password ls /app
Dockerfile
cmd.sh
passwords.txt
$
```

4) Ignoring the password file and checking the app folder

```
$ echo passwords.txt >> .dockerignore
$ docker build -t nopassword .
Sending build context to Docker daemon   4.096kB
Step 1/4 : FROM alpine
 ---> 11cd0b38bc3c
Step 2/4 : ADD . /app
 ---> 95368e7aff5a
Step 3/4 : COPY cmd.sh /cmd.sh
 ---> a1f365e82aaf
Step 4/4 : CMD ["sh", "-c", "/cmd.sh"]
 ---> Running in e581e1cdf8fe
Removing intermediate container e581e1cdf8fe
 ---> bae7f77d5c78
Successfully built bae7f77d5c78
Successfully tagged nopassword:latest
$ docker run nopassword ls /app
Dockerfile
cmd.sh
```

5) Adding a large file

```
$ docker build -t large-file-context .
Sending build context to Docker daemon   104.9MB
Step 1/4 : FROM alpine
 ---> 11cd0b38bc3c
Step 2/4 : ADD . /app
 ---> 2ecda672bb0f
Step 3/4 : COPY cmd.sh /cmd.sh
 ---> 91ada47208e4
Step 4/4 : CMD ["sh", "-c", "/cmd.sh"]
 ---> Running in b00db39d0b4c
Removing intermediate container b00db39d0b4c
 ---> 65db31f7068f
Successfully built 65db31f7068f
Successfully tagged large-file-context:latest
```

6) Ignoring the big file and building image

```
$ echo big-temp-file.img >> .dockerignore
$ docker build -t no-large-file-context .
Sending build context to Docker daemon  4.096kB
Step 1/4 : FROM alpine
 ---> 11cd0b38bc3c
Step 2/4 : ADD . /app
 ---> dfbecb42a44c
Step 3/4 : COPY cmd.sh /cmd.sh
 ---> 3e1a90d093a2
Step 4/4 : CMD ["sh", "-c", "/cmd.sh"]
 ---> Running in a72427afa8d6
Removing intermediate container a72427afa8d6
 ---> 6989c968e0a9
Successfully built 6989c968e0a9
Successfully tagged no-large-file-context:latest
$ []
```