Assignment - 9

Ques 1: Create a container for the below bash script(**prime.sh**).
- Create a Dockerfile
- Create a Docker Image

Find the script from here https://github.com/DARK-art108/Bash-Scripts

ANSWER :-

Script:-

```bash
#!/usr/bin/env bash
echo -n "Enter Any Number: "
read -r n
i=1; c=1
while [ $i -le "$n" ]; do
        i=$((i + 1))
        r=$((n % i))
        [ $r -eq 0 ] && c=$((c + 1))
done

if [ $c -eq 2 ]; then
        echo "Prime"
else
        echo "Not Prime"
fi
```

```
"prime.sh" 15L, 220B                                           15,2            All
```

Dockerfile for Script :-

```
FROM ubuntu:latest
COPY prime.sh /usr/local/bin/
RUN /usr/local/bin/prime.sh
ENTRYPOINT ["prime.sh"]

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"Dockerfile" 6L, 103B                                    3,24              All
```

Commands we performed to complete our task:-

```
root@ip-172-31-1-41:~# vi prime.sh
root@ip-172-31-1-41:~# chmod +x prime.sh
root@ip-172-31-1-41:~# vi Dockerfile
root@ip-172-31-1-41:~# docker build -t prime-Container2 .
[+] Building 0.0s (0/0)
ERROR: invalid tag "prime-Container2": repository name must be lowercase
root@ip-172-31-1-41:~# docker build -t prime-container2 .

[+] Building 0.2s (8/8) FINISHED
 => [internal] load build definition from Dockerfile                      0.0s
 => => transferring dockerfile: 171B                                      0.0s
 => [internal] load .dockerignore                                         0.0s
 => => transferring context: 2B                                          0.0s
 => [internal] load metadata for docker.io/library/ubuntu:latest         0.1s
 => [internal] load build context                                        0.0s
 => => transferring context: 257B                                        0.0s
 => [1/3] FROM docker.io/library/ubuntu:latest@sha256:2adf22367284330af9f832ffefb717c78239f6251d  0.0s
 => CACHED [2/3] COPY prime.sh /usr/local/bin/                            0.0s
 => CACHED [3/3] RUN /usr/local/bin/prime.sh                             0.0s
 => exporting to image                                                    0.0s
 => => exporting layers                                                   0.0s
 => => writing image sha256:2a3c984d1987ac2437b6e23e6de92b6c5b4791fcbb8c1709896b072abe933079  0.0s
 => => naming to docker.io/library/prime-container2                       0.0s
root@ip-172-31-1-41:~# docker images
REPOSITORY        TAG        IMAGE ID        CREATED         SIZE
prime-container2  latest     2a3c984d1987    5 minutes ago   77.8MB
prime-container   latest     2a3c984d1987    5 minutes ago   77.8MB
root@ip-172-31-1-41:~# docker ps -a
CONTAINER ID    IMAGE      COMMAND     CREATED     STATUS     PORTS     NAMES
root@ip-172-31-1-41:~#
```