**Answers**

1. 18
2. Sudo grep -ri 'DEBUG|ERROR|INFO' /
3. echo "Ab1Cd2Ef3Gh4Ij5Kl6Mn7Op8Qr9St10Uv11Wx12Yz13" | sed -E 's/([A-Z])([a-z])[0-9]+/\L\1\2-/g' | sed 's/-$//'
4. Code:

#!/bin/bash

set -e

check\_braces() {

local input="$1"

local balance=0

for (( i=0; i<${#input}; i++ )); do

char="${input:$i:1}"

if [[ "$char" == "{" ]]; then

((balance++))

elif [[ "$char" == "}" ]]; then

((balance--))

fi

if (( balance < 0 )); then

echo "false"

return

fi

done

if (( balance == 0 )); then

echo "true"

else

echo "false"

fi

}

read -p "Enter a string with braces: " user\_input

check\_braces "$user\_input"

**5**.  
**Step 1**:Install docker on the local meachine

**Step 2**: Create a **Dockerfile** with the smallest image possible to containerize it you can find the image and size and version on the official docker website.

**Step 3**: Build the docker file using the command

**docker build**

**Step 4**: We can test the docker file by running the command docker run followed by the port number exposed in the Docker file and with our docker hub username followed by the repository name and the tag name

**docker run -p 8080:8080 guru/tagname .**

**Step 5**: We can directly login to our docker hub from the terminal using the command

**docker login**

**Step 6**: Now we have to push our created docker Image to our docker hub using the command

**docker push guru/test:tagname**

Step 7**: We can login to our docker hub account and check that the created image is pushed successfully**

**6.** server {

listen 80 default\_server;

root /var/www/html;

server\_name \*.senpiper.com senpiper.com;

location /api {

proxy\_pass http://localhost:8000/welcome/home;

}

}