Problem 1 - Create a new directory called "assignment1" in your home directory. Inside "assignment1", create a new file called "file1.txt". Append the text "Hello World" to "file1.txt".

ubuntu@ip-172-31-82-133:~\$ mkdir assignment1

ubuntu@ip-172-31-82-133:~\$ touch assignment1/file1.txt

ubuntu@ip-172-31-82-133:~\$ echo "Hello World" >> assignment1/file1.txt

ubuntu@ip-172-31-82-133:~\$ cd assignment1/

ubuntu@ip-172-31-82-133:~/assignment1\$ ls -lrt

total 4

-rw-rw-r-- 1 ubuntu ubuntu 12 May 18 21:20 file1.txt

ubuntu@ip-172-31-82-133:~/assignment1\$ cat file1.txt

Hello World

ubuntu@ip-172-31-82-133:~/assignment1\$

Problem 2 - Figure out how can you use nslookup to find name and IP address of SMTP server of gmail.com

ubuntu@ip-172-31-82-133:~\$ nslookup -type=mx gmail.com

Server: 127.0.0.53

Address: 127.0.0.53#53

Non-authoritative answer:

gmail.com mail exchanger = 5 gmail-smtp-in.l.google.com.

gmail.com mail exchanger = 40 alt4.gmail-smtp-in.l.google.com.

gmail.com mail exchanger = 10 alt1.gmail-smtp-in.l.google.com.

gmail.com mail exchanger = 30 alt3.gmail-smtp-in.l.google.com.

gmail.com mail exchanger = 20 alt2.gmail-smtp-in.l.google.com.

Authoritative answers can be found from:

ubuntu@ip-172-31-82-133:~\$ nslookup gmail-smtp-in.l.google.com

Server: 127.0.0.53

Address: 127.0.0.53#53

Non-authoritative answer:

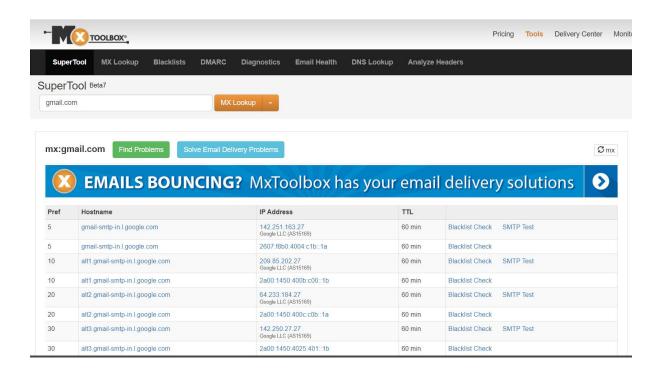
Name: gmail-smtp-in.l.google.com

Address: 142.251.163.27

Name: gmail-smtp-in.l.google.com

Address: 2607:f8b0:4004:c1b::1a

Verified this from https://mxtoolbox.com/SuperTool.aspx?action=mx%3agmail.com&run=toolpage.



Name for SMTP server of gmail.com - gmail-smtp-in.l.google.com

IP for SMTP server of gmail.com - 142.251.163.27

Problem 3 - Create a compressed archive of the "assignment1" directory in your home directory. Save the archive as "assignment1.tar.gz". Delete the "assignment1" directory.

```
ubuntu@ip-172-31-82-133:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-82-133:~$ ls -lrt
total 4
drwxrwxr-x 2 ubuntu ubuntu 4096 May 18 21:20 assignment1
ubuntu@ip-172-31-82-133:~$ tar -cvzf assignment1.tar.gz assignment1/
assignment1/
assignment1/file1.txt
ubuntu@ip-172-31-82-133:~$ ls -lrt
total 8
drwxrwxr-x 2 ubuntu ubuntu 4096 May 18 21:20 assignment1
-rw-rw-r-- 1 ubuntu ubuntu 179 May 18 21:26 assignment1.tar.gz
ubuntu@ip-172-31-82-133:~$ rm -rf assignment1
ubuntu@ip-172-31-82-133:~$ ls -lrt
total 4
-rw-rw-r-- 1 ubuntu ubuntu 179 May 18 21:26 assignment1.tar.gz
ubuntu@ip-172-31-82-133:~$
Problem 4 - Try to play this game to refresh your knowledge om VIM: https://vim-adventures.com/
Problem 5 - Create a new file called "assignment1.txt" using Vim. Type the text "This is my first Vim
file" on the first line. Move to the second line and type "I am learning Vim". Save and exit Vim.
ubuntu@ip-172-31-82-133:~$ vim assignment1.txt
ubuntu@ip-172-31-82-133:~$ cat assignment1.txt
```

This is my first Vim file

n learning Vim	
ank You	