1. Install nginx and host a simple index.html with message "hello nginx".

Nginx is installed in our VM using command:
Sudo apt-get install nginx

After nginx is installed, Nginx services are to be allowed in the firewall.
Using command: ***Sudo ufw app list*** we can list the application profile, and following command
to allow the services in firewall specifically.
Ufw allow 'Nginx Full'
Ufw allow 'Nginx HTTP'

To check Nginx status:
Sudo systemctl status nginx

We can see that nginx is active.

Now, we copy the directory which contains test application which is ready to be deployed in the
/var/www/html file using the command:
Cp NginxTask/ /var/www/html/
My directory was NginxTask which contains a simple index.html file.
Now my index.html file's absolute path is /var/www/html/NginxTask/index.html
We use this absolute path quite often.

And that directory's ownership was changed to current non root user:
Sudo chown -R $USER:$USER /var/www/html/NginxTask/

Now we create a configuration file for the application which is to be deployed.
Inside the directory /etc/nginx/sites-available/, a default configuration file is present. We copy
this file to a new file called NginxTask.conf inside the same directory using command:
Cp default NginxTask.conf

To edit the file:
Nano NginxTask.conf

Inside this file some configurations are edited: Inside server block, the server name was enlisted, also the absolute path of the index.html file was mentioned with root.

```
root /var/www/html/NginxTest/;

# Add index.php to the list if you are using PHP
index index.html, index.htm;

server_name www.bijaykandel33.com bijaykandel37.com;
```

And the file was saved and exited.

Now nginx.conf file was edited using command:
Nano /etc/nginx/nginx.conf

Inside http block, a Server block is added with some configurations as shown:

```
http {

        ##
        # Basic Settings
        ##

server {
        listen 80;
        server_name www.bijaykandel37.com;
        root /var/www/html/NginxTask;
        }
```

Symlink was created with the NginxTask.conf located in sites-available directory and that of sites-enabled directory using command:
In -s /etc/nginx/sites-available/NginxTask.conf /etc/nginx/sites-enabled/

Now host ip was configured using command:
Sudo nano /etc/hosts and listing my IP and domainname as:

```
  GNU nano 4.8                        /etc/hosts
127.0.0.1        localhost
127.0.1.1        batman

192.168.1.67     www.bijaykandel37.com    bijaykandel37.com
```

To test the system configurations,
nginx -t

Since no errors were generated, nginx was restarted using command:
Sudo systemctl restart nginx

And when we go to the browser and enter the domain name which is provided before (www.bijaykandel37.com) in my case and we can get this result:

Nginx

www.bijaykandel37.com

Hello Nginx