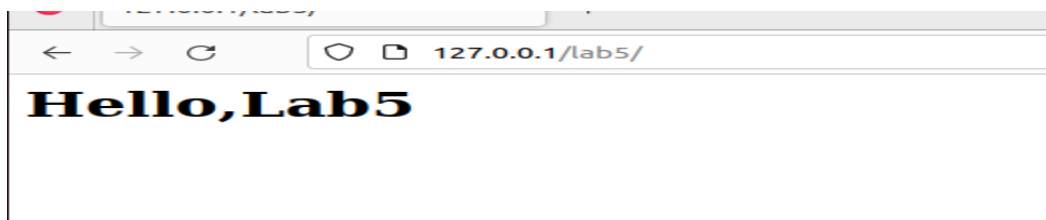# 1-Install nginx

```
samar@samar-VirtualBox:~$ sudo apt install nginx
[sudo] password for samar:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx-common nginx-core
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx nginx-common nginx-core
0 upgraded, 9 newly installed, 0 to remove and 255 not upgraded.
Need to get 696 kB of archives.
After this operation, 2,395 kB of additional disk space will be used.
```

2-Enable port 80 on the firewall

```
samar@samar-VirtualBox:~$ sudo ufw enable
Firewall is active and enabled on system startup
samar@samar-VirtualBox:~$ sudo ufw allow 80/tcp
Rule added
Rule added (v6)
```

3- create index.html file on the root directory of the server section and test it

```
samar@samar-VirtualBox:~$ cd /var/www/html
samar@samar-VirtualBox:/var/www/html$ sudo mkdir lab5
samar@samar-VirtualBox:/var/www/html$ cd /var/www/html/lab5
samar@samar-VirtualBox:/var/www/html/lab5$ sudo nano index.html
```

127.0.0.1/lab5/

Hello,Lab5

4- install php-fpm package

```
e other options.
samar@samar-VirtualBox:/var/www/html/lab5$ sudo apt-get install php-fpm
[sudo] password for samar:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  php8.1-fpm
Suggested packages:
  php-pear
The following NEW packages will be installed:
```

5-configure main site to enable php-fpm

```
location / {
        # First attempt to serve request as file, then
        # as directory, then fall back to displaying a 404.
        try_files $uri $uri/ =404;
}

# pass PHP scripts to FastCGI server
#
location ~ \.php$ {
    include snippets/fastcgi-php.conf;
#
#       # With php-fpm (or other unix sockets):
    fastcgi_pass unix:/run/php/php7.4-fpm.sock;
#       # With php-cgi (or other tcp sockets):
#       fastcgi_pass 127.0.0.1:9000;
}
```

6-create index.php

← → C   ○ 🔒 localhost/index.html

Hello,I'm Samar