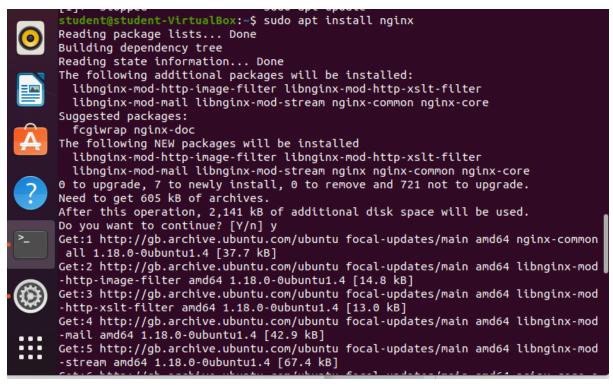
Setup NGINX webserver

Q1 a

installing nginx



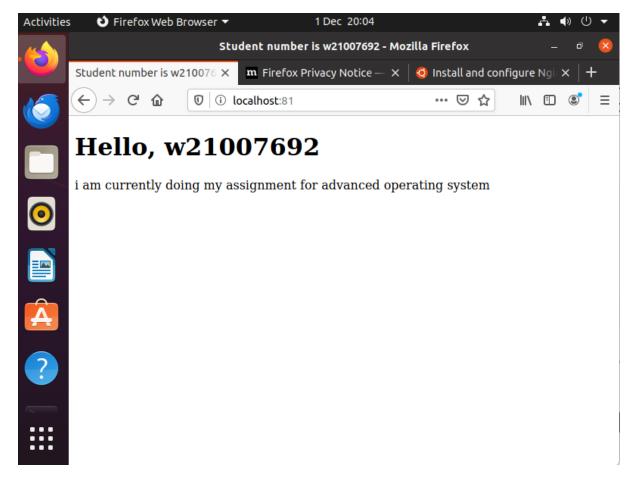
```
student@student-VirtualBox:/$ cd /var/www
student@student-VirtualBox:/var/www$ sudo mkdir w21007692
student@student-VirtualBox:/var/www$ cd w21007692/
student@student-VirtualBox:/var/www/w21007692$ sudo nano index.html
```

```
Q ≡
                 student@student-VirtualBox: /var/www/w21007692
                                        index.html
  GNU nano 4.8
 !doctype html>
        <title>Student number is w21007692</title>
        <h1>Hello, w21007692</h1>
i am currently doing my assignment for advanced operating system
                                 [ Wrote 10 lines ]
^G Get Help
                ^O Write Out
                                  W Where Is
                                                  ^K Cut Text
^U Paste Text
                                                                      Justify
                                    Replace
                                                                      To Spell
  Exit
                   Read File
```

student@student-VirtualBox:/etc/nginx/sites-enabled\$ sudo nano w21007692
student@student-VirtualBox:/etc/nginx/sites-enabled\$ sudo service nginx restart

To save the progress I used the nginx restart command after modifying the content of w21007692

```
GNU nano 4.8
                                           w21007692
server
       listen 81;
       listen [::]:81;
       server_name greater.com;
       root /var/www/w21007692;
index index.html;
       location / {
                 try_files $uri $uri/ =404;
       }
                                  [ Read 13 lines ]
^W Where Is ^K
                                                                      ^J Justify
^T To Spell
∿G Get Help
                 ^O Write Out
                                                     ^K Cut Text
'X Exit
                    Read File
                                      Replace
                                                       Paste Text
```



The advantages of nginx are that it follows an event driven approach unlike Apache (which follows a process-driven approach), this advantage enables nginx to handle multiple requests with one thread, unlike Apache which has to create new threads for each request. Also, nginx has higher performance and better memory management compared to Apache so it is very suitable for environments with limited resources.

Nginx is faster at loading static content compared to Apache because it doesn't use PHP. Nginx is more secure compared to Apache and can be used as a reverse proxy server unlike Apache and finally nginx is easier to understand.

The disadvantages of nginx are that it doesn't support all Unix-like OS and partially supports Windows. Apache allows additional configuration on a per-directory basis via .htaccess files but nginx doesn't allow further configurations. Nginx uses 3rd Party core modules, unlike Apache which has 60 official dynamically loadable modules.