1. Install Apache HTTP server

```
fady@fady-virtual-machine:~$ apache2 -v
Server version: Apache/2.4.58 (Ubuntu)
Server built: 2025-08-11T11:10:09
fady@fady-virtual-machine:~$
```

2. Create two simple html pages named "page1.html, page2.html" then use the suitable directive to automatically redirect from localhost/page1.html to localhost/page2.html.

Redirect /page1.html /page2.html

Then reload apache sudo systemetl reload apache2

3. Ask for user name and password when accessing a directory

```
<Directory "/var/www/html/first_iti_apache">
          AuthType Basic
          AuthName "Restricted Area"
          AuthUserFile /etc/apache2/.htpasswd
          Require valid-user
</Directory>
```

```
fady@fady-virtual-machine:/etc/apache2/sites-available$ sudo systemctl reload apache2
fady@fady-virtual-machine:/etc/apache2/sites-available$ sudo htpasswd -c /etc/apache2/.htpasswd fady
New password:
Ne-type new password:
Nedding password for user fady
fady@fady-virtual-machine:/etc/apache2/sites-available$ vi 000-default.conf
fady@fady-virtual-machine:/etc/apache2/sites-available$ sudo vi 000-default.conf
fady@fady-virtual-machine:/etc/apache2/sites-available$ sudo systemctl reload apache2
fady@fady-virtual-machine:/etc/apache2/sites-available$ sudo vi 000-default.conf
fady@fady-virtual-machine:/etc/apache2/sites-available$
```

4. Apply authentication before downloading PDF files.

5. Create a directory then allow access to one of your classmates only.

```
<Directory "/var/www/html/classroom">
        AuthType Basic
        AuthName "Restricted Classroom"
        AuthUserFile /etc/apache2/.htpasswd
        Require user Abdullah
</Directory>
```

6. Disable listing the directory content (hint use indexs)

```
<Directory "/var/www/html">
    Options -Indexes +FollowSymLinks
    AllowOverride All
    Require all granted
</Directory>
```

7. Change the default index page to be default.html instead of index.html (use

DirectoryIndex)

<Directory "/var/www/html">
 Options -Indexes +FollowSymLinks
 AllowOverride All
 Require all granted
 DirectoryIndex default.html
 </Directory>