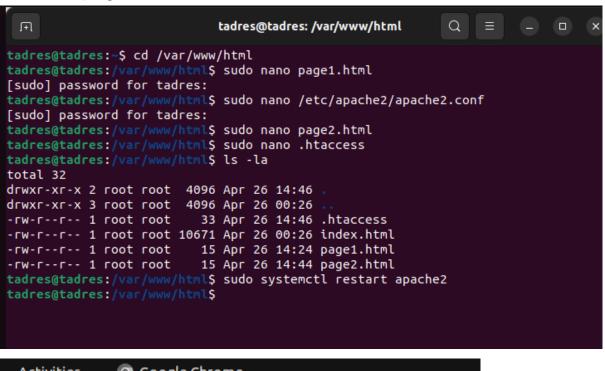
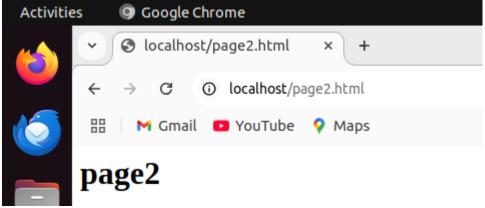
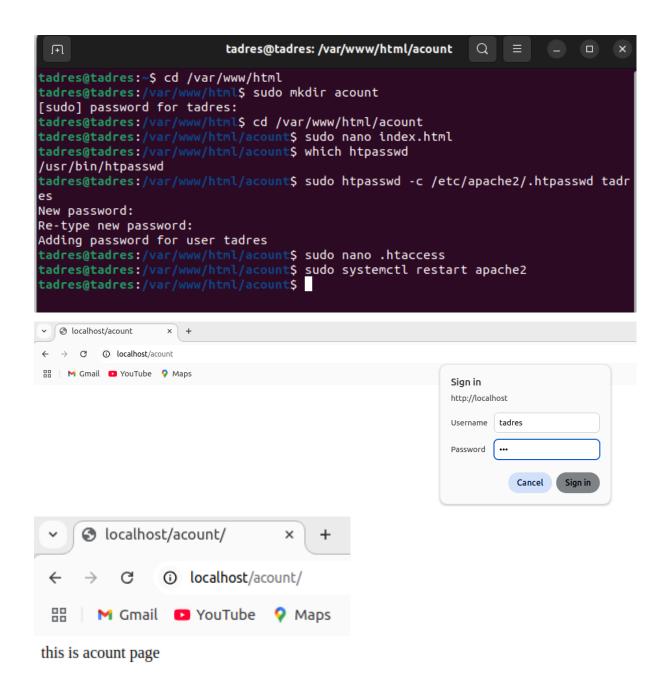
apache lab1

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.





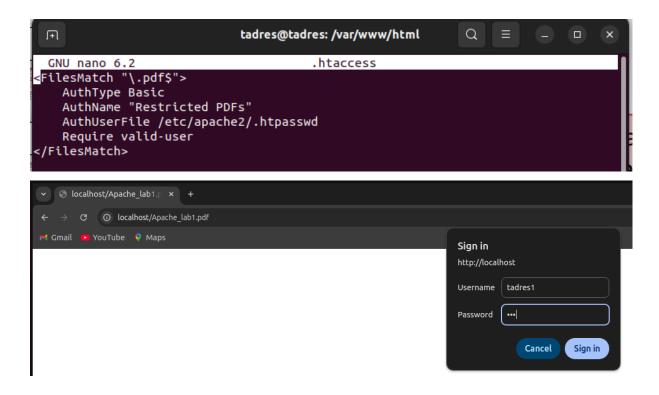
3-Ask for user name and password when accessing a directory.



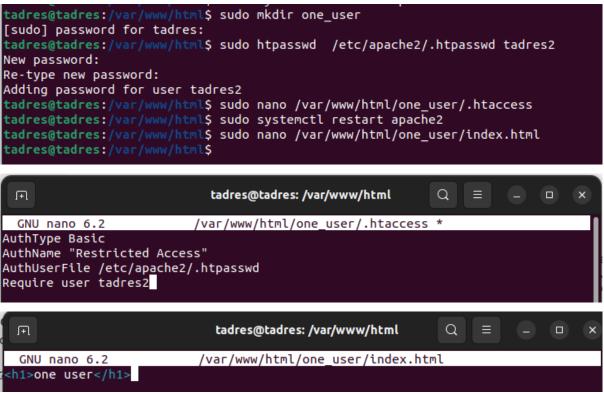
4-Apply authentication before downloading PDF files.

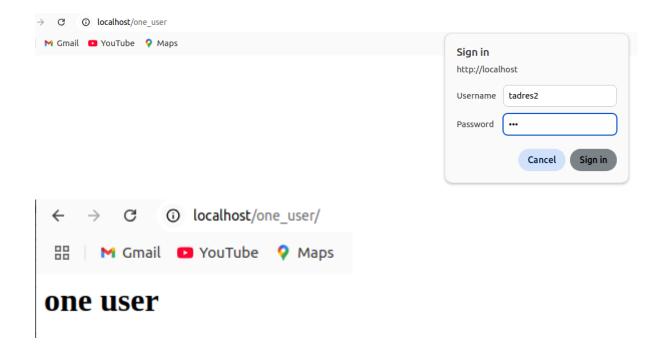
```
tadres@tadres:/var/www/html Q = - - ×

tadres@tadres:/var/www/html$ sudo cp ~/Downloads/Apache_lab1.pdf /var/www/html
tadres@tadres:/var/www/html$ sudo htpasswd /etc/apache2/.htpasswd tadres1
New password:
Re-type new password:
Adding password for user tadres1
tadres@tadres:/var/www/html$ sudo nano .htaccess
tadres@tadres:/var/www/html$ sudo nano .htaccess
tadres@tadres:/var/www/html$ sudo systemctl restart apache2
tadres@tadres:/var/www/html$
```

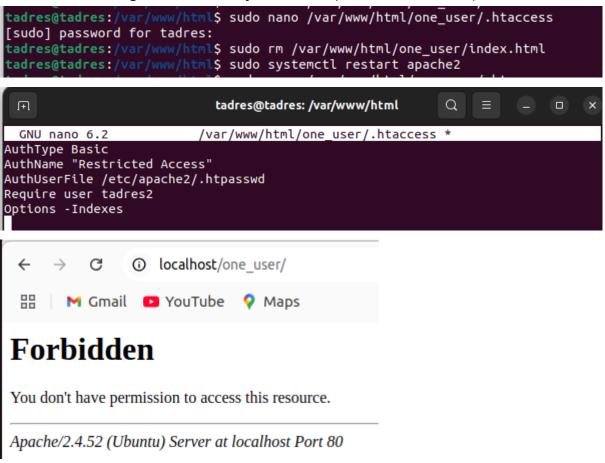


5-Create a directory then allow access to one of your classmates only.

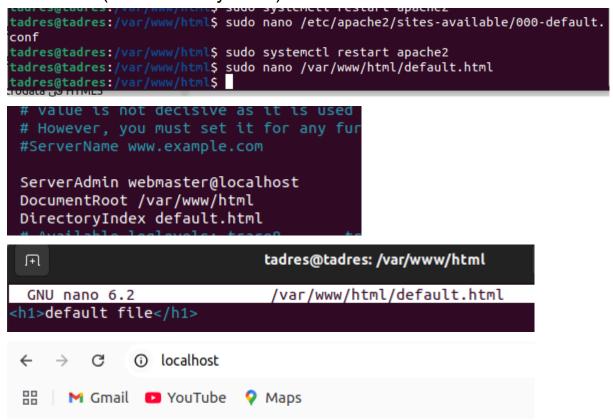




6-Disable listing the directory content (hint use indexs).



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



default file

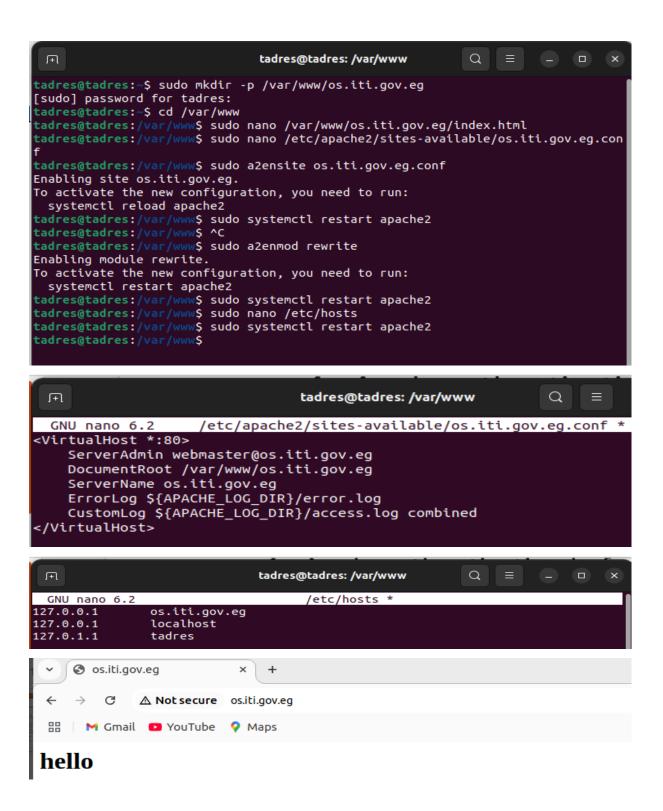
another solve:

```
tadres@tadres:/var/www/html$ sudo nano /var/www/html/.htaccess
tadres@tadres:/var/www/html$ sudo systemctl restart apache2
tadres@tadres:/var/www/html$ sudo nano /var/www/html/default.html

tadres@tadres:/var/www/html Q = - 

GNU nano 6.2 /var/www/html/.htaccess
DirectoryIndex default.html
```

8-Create virtualhost for os.iti.gov.eg website



9-Enable rewrite module



10-What is the importance of rewrite module?

The Importance of the Rewrite Module in Apache (mod_rewrite) The Rewrite Module (mod_rewrite) in Apache is a powerful tool for URL manipulation and redirection. It allows servers to rewrite requested URLs on the fly, improving SEO, security, and user experience.

Key Benefits:

SEO-Friendly URLs: Converts dynamic URLs (e.g., ?id=123) into clean, readable paths (e.g., /products/123).

Redirection & Routing: Redirects old URLs to new ones (301/302) and manages internal URL routing.

Security: Blocks malicious requests, hides file extensions, and preventshotlinking.

Flexibility: Works with conditions (RewriteCond) and rules (RewriteRule) for complex URL handling.

Backward Compatibility: Ensures old links still work after website restructuring.

Example Use Cases:

Redirecting HTTP to HTTPS.

Making URLs user-friendly (/blog/post-title instead of /blog.php?id=42).

Preventing access to sensitive files.

Since it operates at the server level, mod_rewrite is efficient and widely used in modern web development.