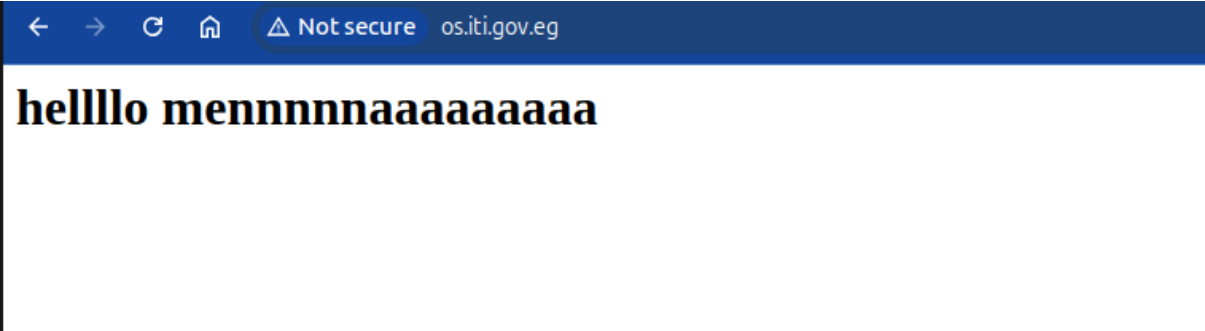


8-

```
pc@pc-Inspiron-5593:~$ sudo nano /etc/apache2/sites-available/os.iti.gov.eg.conf
[sudo] password for pc:
pc@pc-Inspiron-5593:~$ sudo a2ensite os.iti.gov.eg.conf
Enabling site os.iti.gov.eg.
To activate the new configuration, you need to run:
    systemctl reload apache2
pc@pc-Inspiron-5593:~$ sudo systemctl restart apache2^C
pc@pc-Inspiron-5593:~$ sudo systemctl restart apache2
pc@pc-Inspiron-5593:~$
```

```
pc@pc-Inspiron-5593:~$ sudo systemctl restart apache2^C
pc@pc-Inspiron-5593:~$ sudo systemctl restart apache2
pc@pc-Inspiron-5593:~$ sudo mkdir /var/www/os.iti.gov.eg
pc@pc-Inspiron-5593:~$ sudo nano /var/www/os.iti.gov.eg/index.html
pc@pc-Inspiron-5593:~$ sudo mkdir /var/www/os.iti.gov.eg
mkdir: cannot create directory '/var/www/os.iti.gov.eg': File exists
pc@pc-Inspiron-5593:~$ sudo chown -R www-data:www-data /var/www/os.iti.gov.eg
pc@pc-Inspiron-5593:~$ sudo nano /var/www/os.iti.gov.eg/index.html
pc@pc-Inspiron-5593:~$ sudo nano /etc/hots
pc@pc-Inspiron-5593:~$ sudo nano /etc/hosts
pc@pc-Inspiron-5593:~$ sudo nano /etc/apache2/sites-available/os.iti.gov.eg.conf
pc@pc-Inspiron-5593:~$ sudo a2ensite os.iti.gov.eg.conf
Site os.iti.gov.eg already enabled
pc@pc-Inspiron-5593:~$ sudo systemctl restart apache2
pc@pc-Inspiron-5593:~$
```



9-

```
pc@pc-Inspiron-5593:~$ sudo a2enmod rewrite
[sudo] password for pc:
Sorry, try again.
[sudo] password for pc:
Enabling module rewrite.
To activate the new configuration, you need to run:
    systemctl restart apache2
pc@pc-Inspiron-5593:~$ sudo systemctl restart apache2
pc@pc-Inspiron-5593:~$
```

Lap 2

1-

```
pc@pc-Inspiron-5593:~$ sudo a2dismod mpm_prefork
Module mpm_prefork already disabled
pc@pc-Inspiron-5593:~$ sudo a2enmod mpm_worker
Considering conflict mpm_event for mpm_worker:
ERROR: Module mpm_event is enabled - cannot proceed due to conflicts. It needs to
be disabled first!
Considering conflict mpm_prefork for mpm_worker:
pc@pc-Inspiron-5593:~$ sudo a2dismod mpm_event
Module mpm_event disabled.
To activate the new configuration, you need to run:
    systemctl restart apache2
pc@pc-Inspiron-5593:~$ sudo a2enmod mpm_worker
Considering conflict mpm_event for mpm_worker:
Considering conflict mpm_prefork for mpm_worker:
Enabling module mpm_worker.
To activate the new configuration, you need to run:
    systemctl restart apache2
pc@pc-Inspiron-5593:~$ sudo systemctl restart apache2
pc@pc-Inspiron-5593:~$
```

2-

```
rewrite_module (shared)
pc@pc-Inspiron-5593:~$ apache2ctl -M | grep rewrite
AH00558: apache2: Could not reliably determine the server's fully qualified domain
name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress this message
rewrite_module (shared)
```

3-

```
pc@pc-Inspiron-5593:~$ sudo nano /var/www/html/.htaccess
pc@pc-Inspiron-5593:~$
```

```
GNU nano 7.2 /var/www/html/.htaccess *
<Directory /var/www/html>
    RewriteEngine On
    RewriteCond %{QUERY_STRING} forbidden
    RewriteRule ^page$ - [F]

    RewriteCond %{QUERY_STRING} .+
    RewriteRule ^(.*)$ /$1? [R=301,L]

    RewriteCond %{QUERY_STRING} ^var=([^&]+) [NC]
    RewriteRule ^page1$ /page2? [R=301,L]

    RewriteCond %{QUERY_STRING} ^([^=]+)=([^&]+) [NC]
    RewriteRule ^path$ /path/%1/%2? [R=301,L]

    RewriteRule ^example/([^/]+)/([^/]+)$ /something.cgi?arg=$1&other=$2>

    RewriteCond %{TIME_HOUR}%{TIME_MIN} <1800
    RewriteRule ^$ /goodmorning.html [L]

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

4-

```
GNU nano 7.2 /etc/apache2/sites-available/os.iti.gov.eg.conf *
<VirtualHost *:80>
    ServerAdmin webmaster@os.iti.gov.eg
    ServerAlias www.os.iti.gov.eg
    DocumentRoot /var/www/os.iti.gov.eg
    ServerName os.iti.gov.eg
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    <Directory /var/www/os.iti.gov.eg>
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>

</VirtualHost>
```

```
GNU nano 7.2 /etc/hosts
127.0.0.1 localhost
127.0.1.1 pc-Inspiron-5593
127.0.0.1 os.iti.gov.eg

# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

Read 10 lines
```

```
pc@pc-Inspiron-5593:~$ sudo nano /etc/apache2/sites-available/os.iti.gov.eg.conf
[sudo] password for pc:
pc@pc-Inspiron-5593:~$ sudo nano /etc/hosts
pc@pc-Inspiron-5593:~$ sudo chmod -R 755 /var/www/os.iti.gov.eg
pc@pc-Inspiron-5593:~$ sudo a2ensite os.iti.gov.eg.conf
Site os.iti.gov.eg already enabled
pc@pc-Inspiron-5593:~$ sudo systemctl restart apache2
pc@pc-Inspiron-5593:~$
```