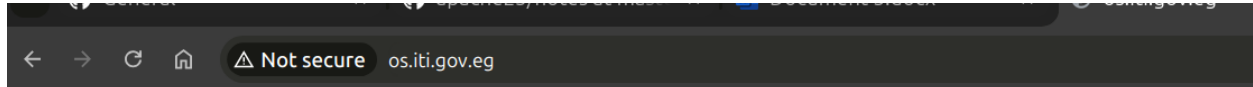


## Task8 lab 1 – task4 lab 2

```
<VirtualHost *:80>
    ServerAdmin webmaster@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
</VirtualHost>

abdelrahman@abdelrahman-lap:~$ sudo vim /etc/apache2/sites-available/os.iti.gov.eg.conf
abdelrahman@abdelrahman-lap:~$ 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
abdelrahman@abdelrahman-lap:~$ sudo systemctl restart apache2
abdelrahman@abdelrahman-lap:~$ sudo mkdir /var/www/os.iti.gov.eg
abdelrahman@abdelrahman-lap:~$ sudo touch /var/www/os.iti.gov.eg/index.html
127.0.0.1 localhost os.iti.gov.eg
127.0.1.1 abdelrahman-lap
```



**hello os iti is working**

## Task9 lab 1

```
abdelrahman@abdelrahman-lap:~$ sudo a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
    systemctl restart apache2
abdelrahman@abdelrahman-lap:~$
```

## Task10 lab 1

Rewrite module is important for:

Improving SEO (search engine optimization) and User experience,

enhances security and access control,

Mangling URLs,

## Handling dynamic content and rooting

## Task1 lab2

```

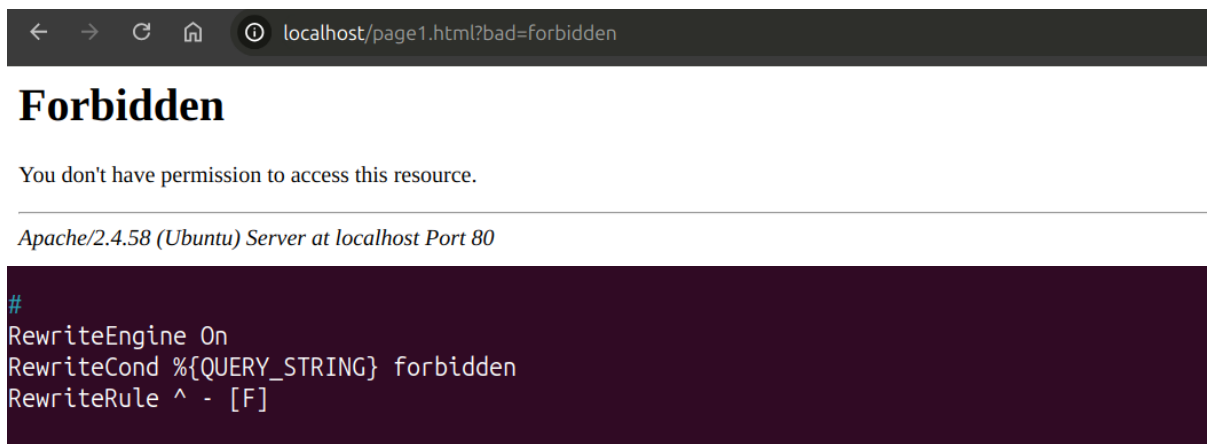
abdelrahman@abdelrahman-lap:~$ sudo apachectl -V | grep MPM
Server MPM:          event
abdelrahman@abdelrahman-lap:~$ sudo a2dismod mpm_event
Module mpm_event disabled.
To activate the new configuration, you need to run:
    systemctl restart apache2
abdelrahman@abdelrahman-lap:~$ sudo apachectl -V | grep MPM
AH00534: apache2: Configuration error: No MPM loaded.
Server MPM:
abdelrahman@abdelrahman-lap:~$ 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

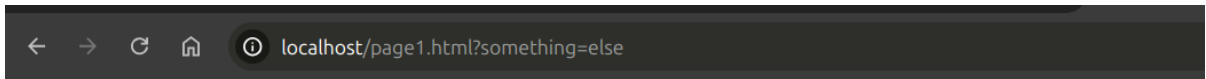
```

## Task2 lab 2

```
abdelrahman@abdelrahman-lap:~$ apachectl -M
AH00558: apache2: Could not reliably determine the server's fully qualified domain
this message
Loaded Modules:
  reqtimeout_module (shared)
  rewrite_module (shared)
  setenvif_module (shared)
```

## Task3 lab 2

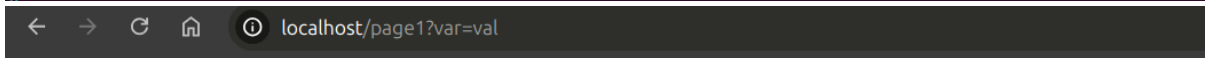




hello page 1

B-

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



Not Found

C-

```
#
RewriteCond %{REQUEST_URI} ^/page1$
RewriteCond %{QUERY_STRING} (^|&)var=val(&|$)
RewriteRule ^page1$ /page2? %{QUERY_STRING} [R=301,L]
```

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

D-

```
#
RewriteRule ^example/([^/]+)/([^/]+)$ /something.cgi?arg=$1&other=$2 [R=301,L]
```

E-