- **Using `apt` install `apache2` server**
- **Replace the default `index.html` content with your own content**
- **install `php` module for `apache2`**

```
[+]              mariam@mariam-IdeaPad-L340-15IRH-Gaming: ~       Q  ≡   —  □  ×

mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ sudo apt install apache2
[sudo] password for mariam:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.52-1ubuntu4.4).
0 upgraded, 0 newly installed, 0 to remove and 454 not upgraded.
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ sudo systemctl start apache2
```

```
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ sudo systemctl start apache2
mariam@mariam-IdeaPad-L340-15IRH-Gaming:/var/www/html$ sudo mv myindex.html index.html
mariam@mariam-IdeaPad-L340-15IRH-Gaming:/var/www/html$ sudo systemctl restart apache2
mariam@mariam-IdeaPad-L340-15IRH-Gaming:/var/www/html$ □
```

```
sudo apt install libapache2-mod-php
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libapache2-mod-php is already the newest version (2:8.1+92ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 454 not upgraded.
```

- **create new Named VirtulHost to serve new php project with special access log**
- **create simple `index.php` file for the php site**
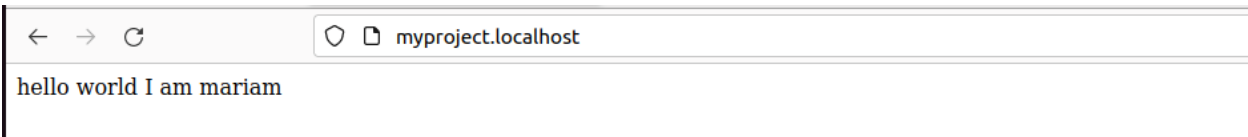- **configure `/etc/hosts` for php site.**

```
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ sudo mkdir /var/www/html/myproject
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ sudo nano /var/www/html/myproject/index.php
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ sudo nano /etc/apache2/sites-available/myproject.conf
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ systemctl reload apache2
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ sudo nano /etc/hosts
```

```
<VirtualHost *:80>
    ServerName myproject.local
    DocumentRoot /var/www/html/myproject

    ErrorLog /var/log/apache2/myproject-error.log
    CustomLog /var/log/apache2/myproject-access.log combined

    <Directory /var/www/html/myproject>
        AllowOverride All
        Require all granted
    </Directory>
</VirtualHost>
```

myproject.localhost

hello world I am mariam

```
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ systemctl reload apache2
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ sudo a2ensite myproject.conf
Site myproject already enabled
mariam@mariam-IdeaPad-L340-15IRH-Gaming:~$ 
```

disable directory listing for the new virtualhost

```
<VirtualHost *:80>
    ServerName myproject.local
    DocumentRoot /var/www/html/myproject

    ErrorLog /var/log/apache2/myproject-error.log
    CustomLog /var/log/apache2/myproject-access.log combined

    <Directory /var/www/html/myproject>
        Options -Indexes
        AllowOverride All
        Require all granted
    </Directory>
</VirtualHost>
```