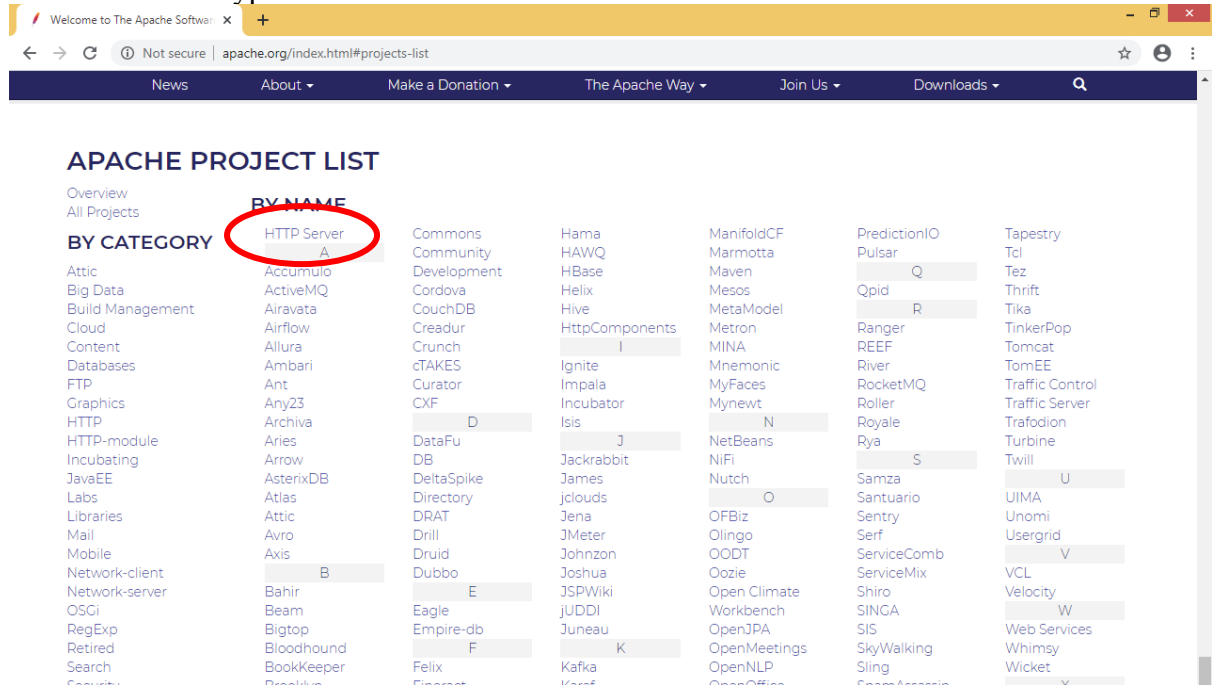


Subject :	SEHH1016 : Introduction to Internet Technology
Lab/Tutorial :	<u>Tutorial 06: Web Server Setup</u>

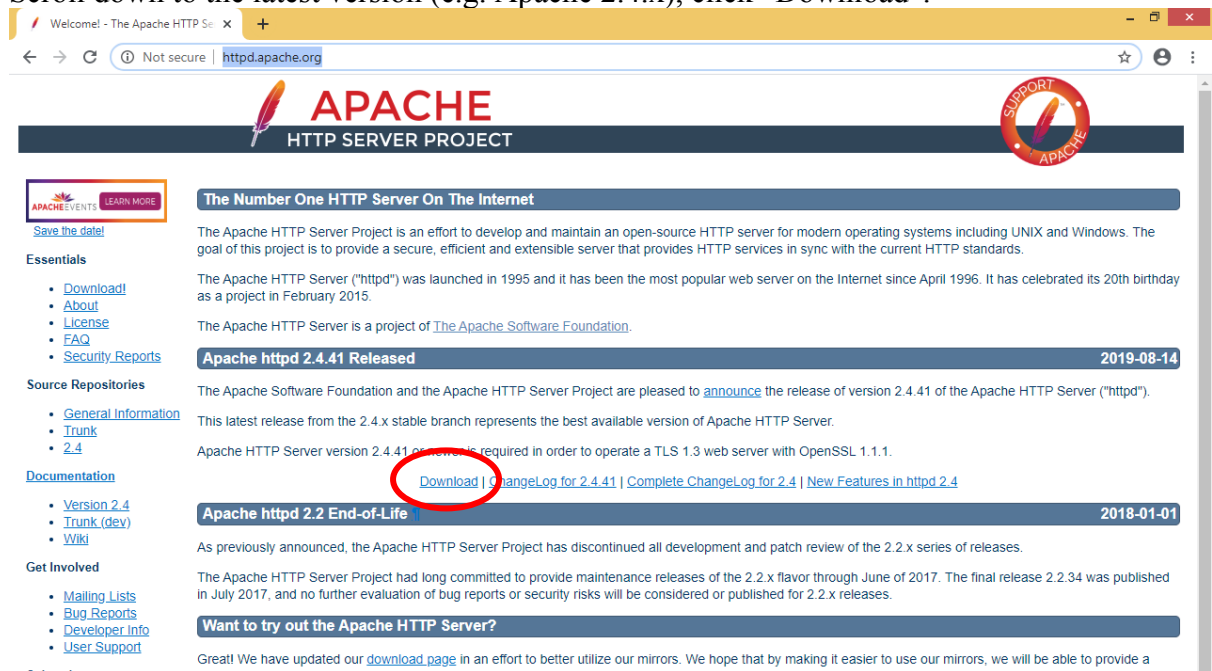
Objective: To download and install a Web server and then create the first homepage and run a PHP script on the Web server.

Lab 1 Download an Apache Server

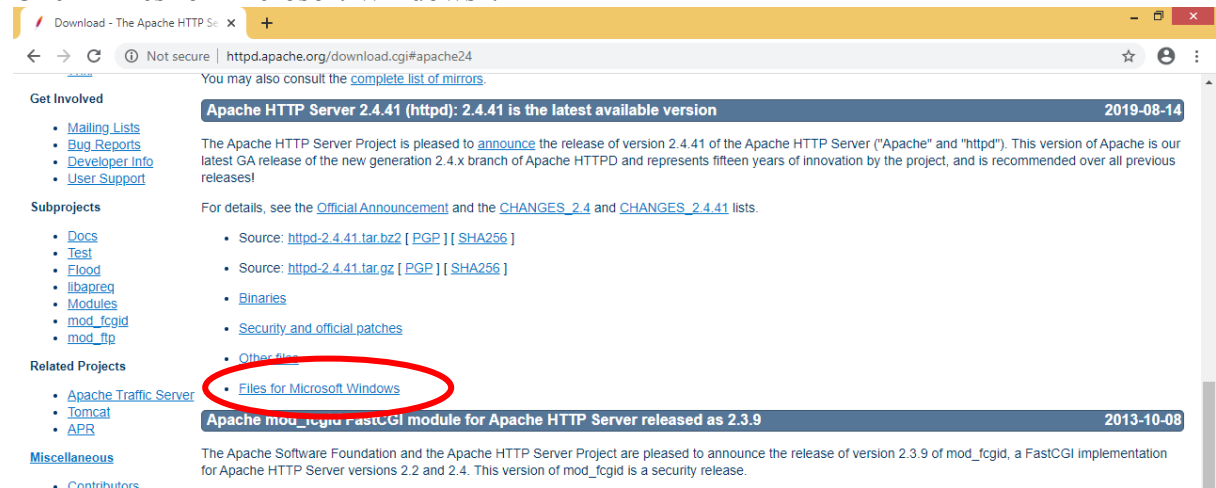
1. Go to <http://www.apache.org/>, scroll down to “APACHE PROJECT LIST” and click “HTTP Server” hyperlink.



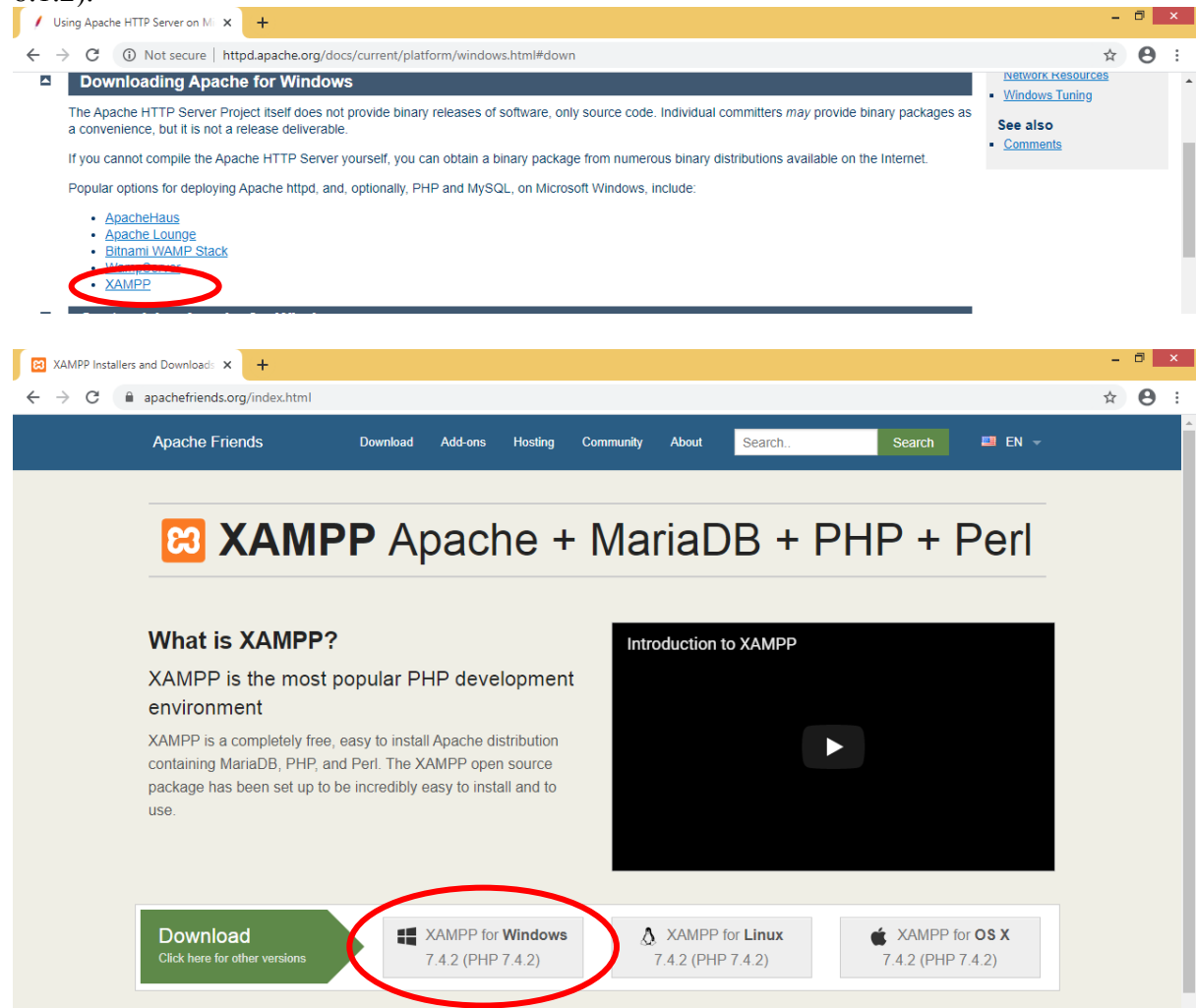
2. Scroll down to the latest version (e.g. Apache 2.4.x), click “Download”.



3. Click “Files for Microsoft Windows”.



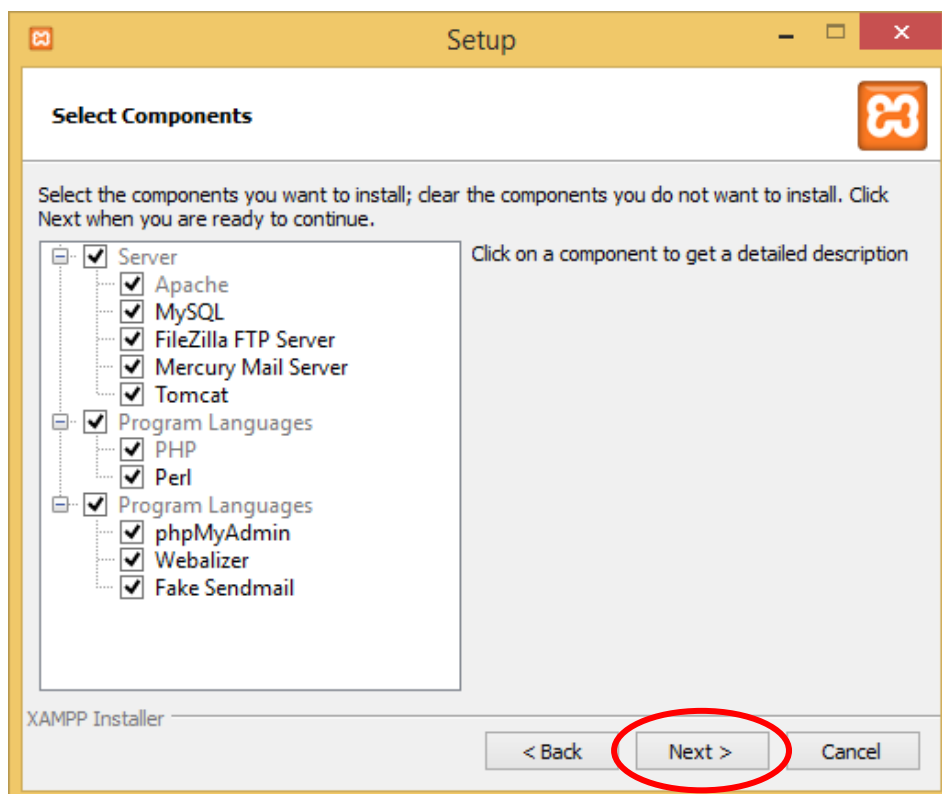
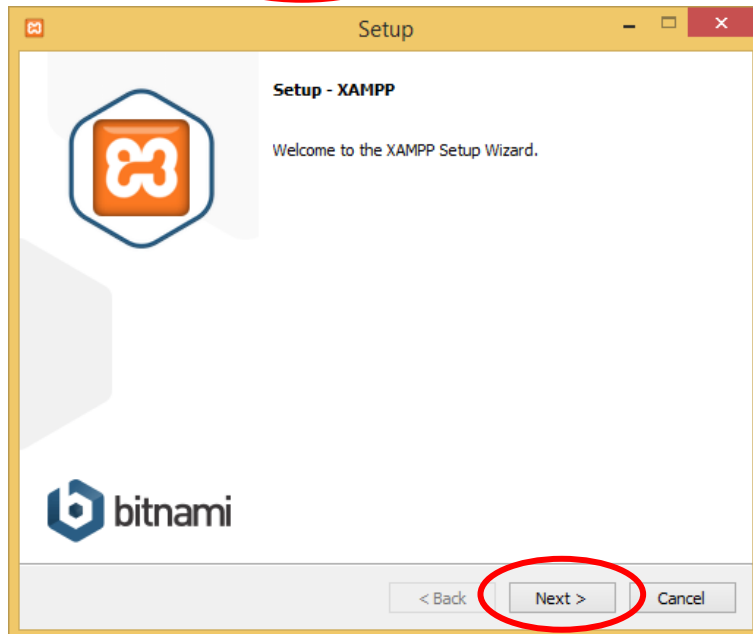
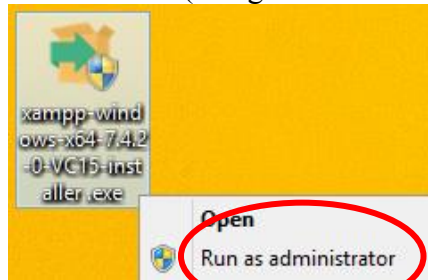
4. Click XAMPP to link to the website for downloading XAMPP for Windows 8.1.2 (PHP 8.1.2).

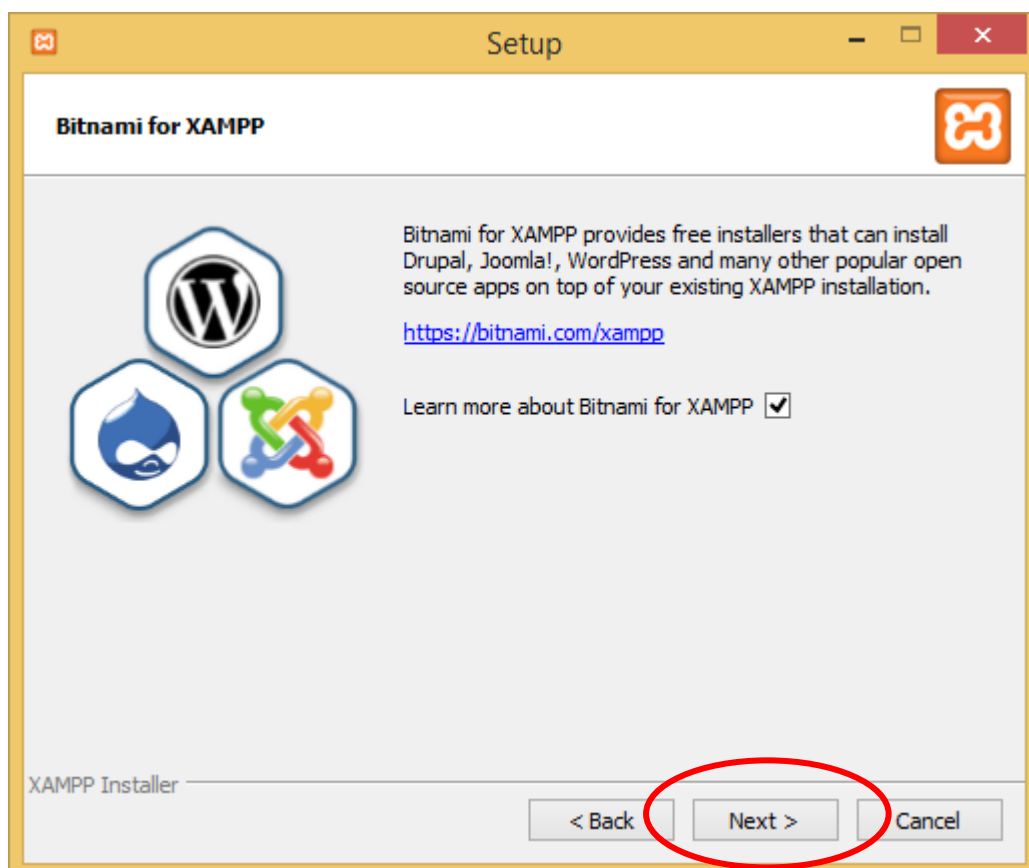
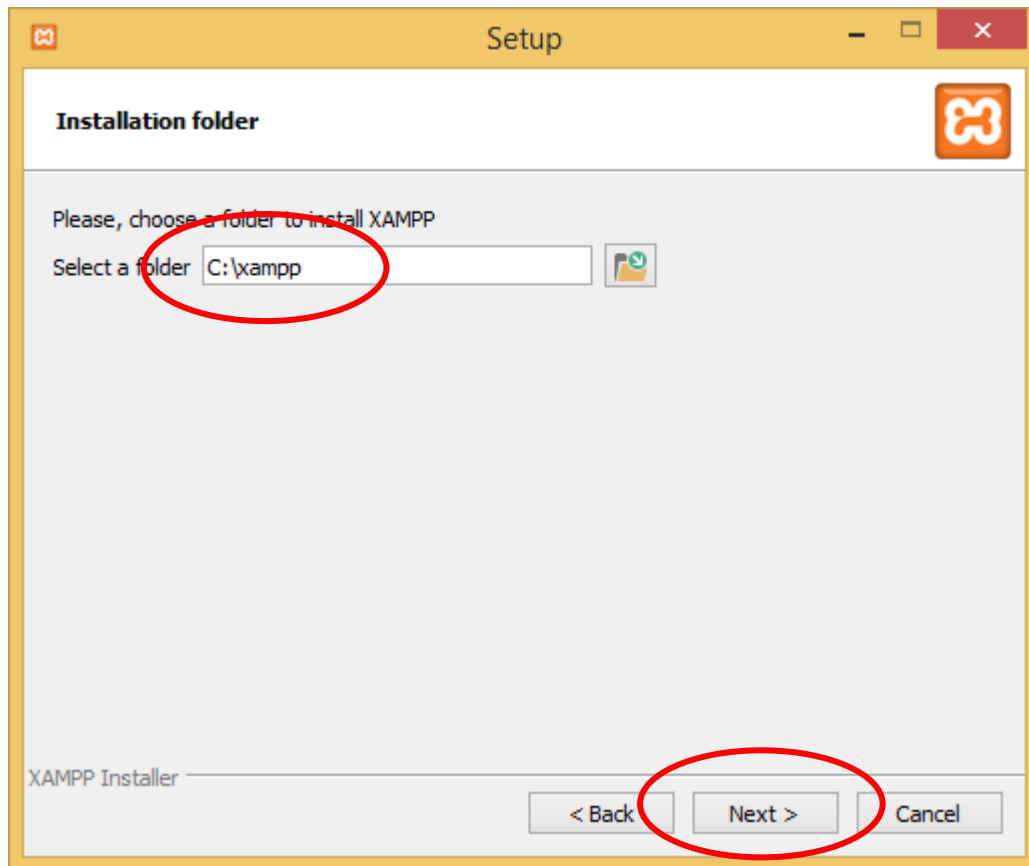


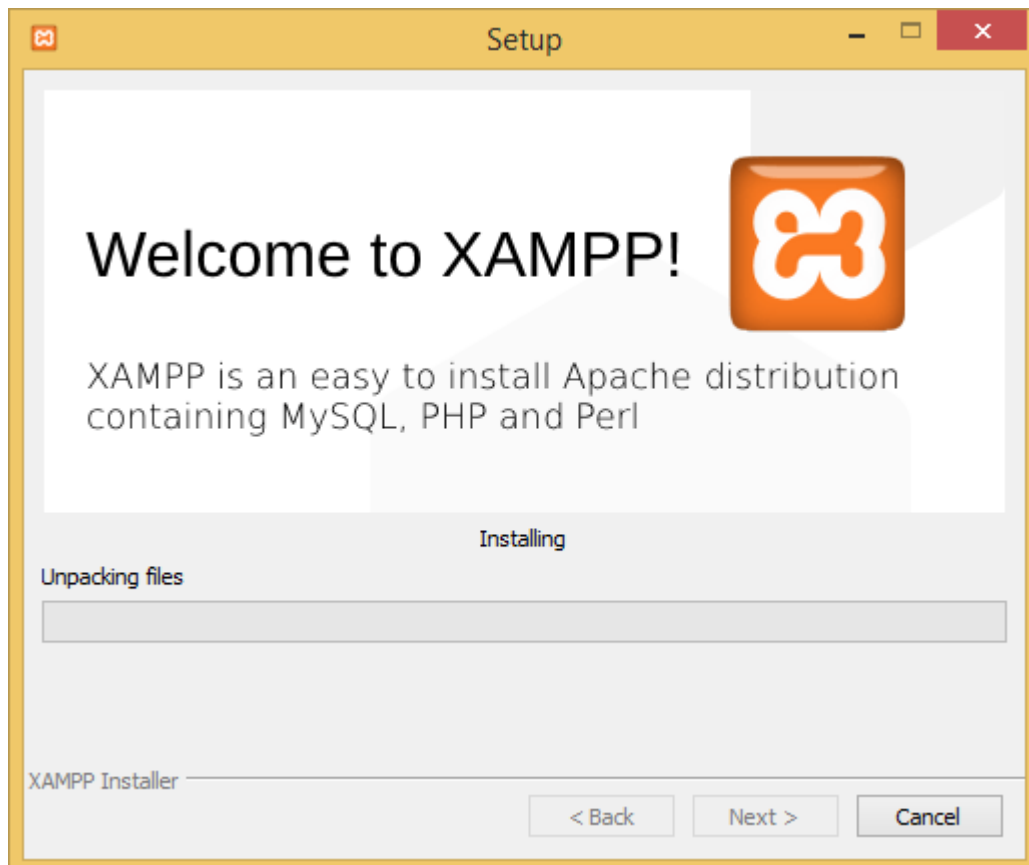
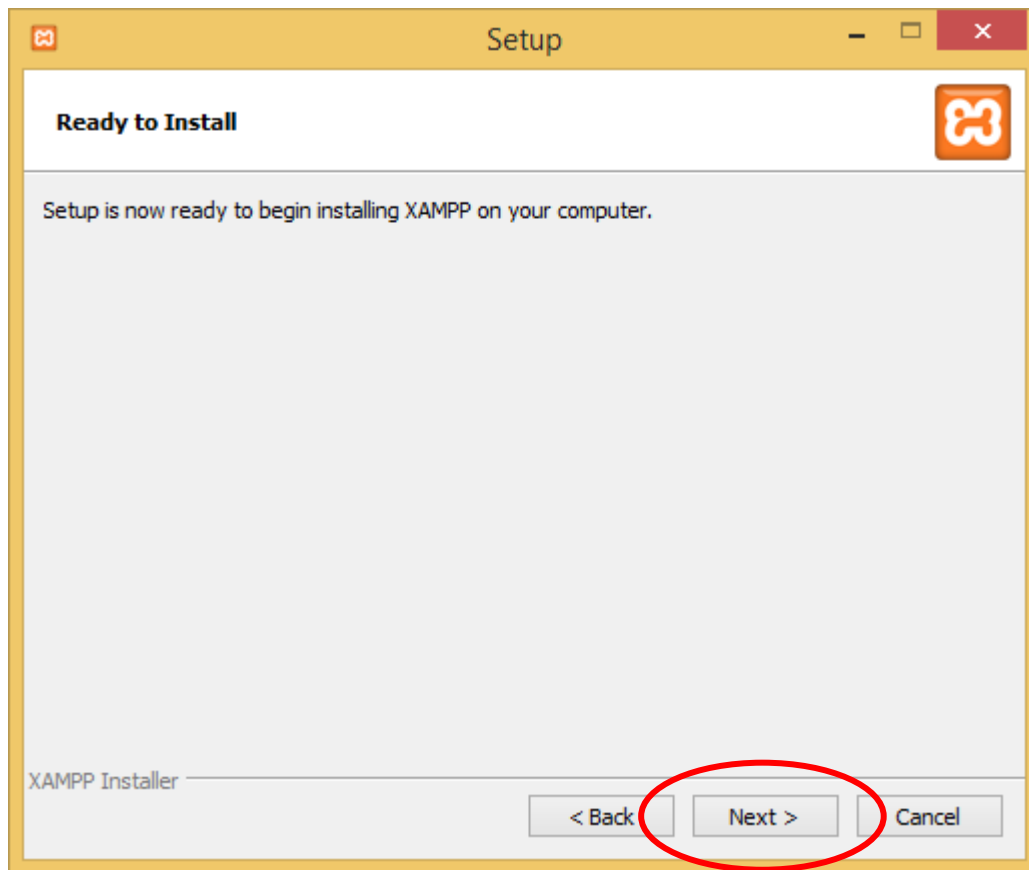
5. Save the file “xampp-windows-x64-8.1.2-0-VC16-installer.exe” (about 164MB).

Lab 2 Install an Apache Server

Double-click (or right-click and choose Run as administrator) the XAMPP icon.



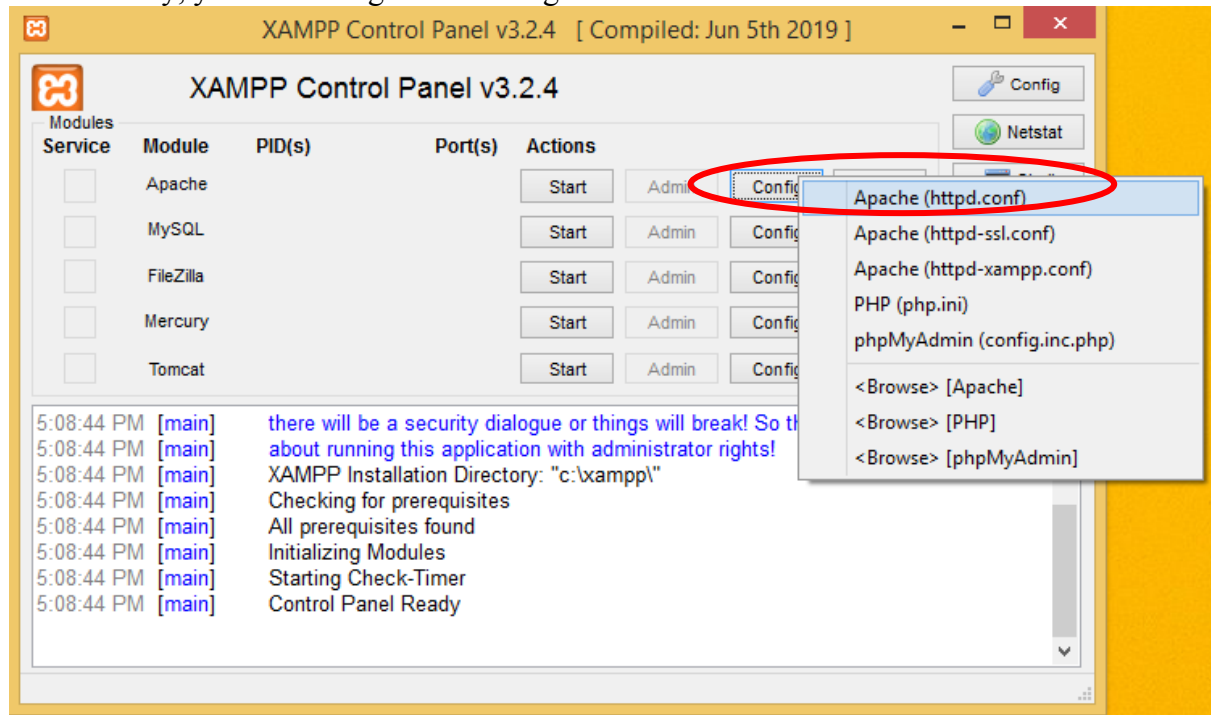




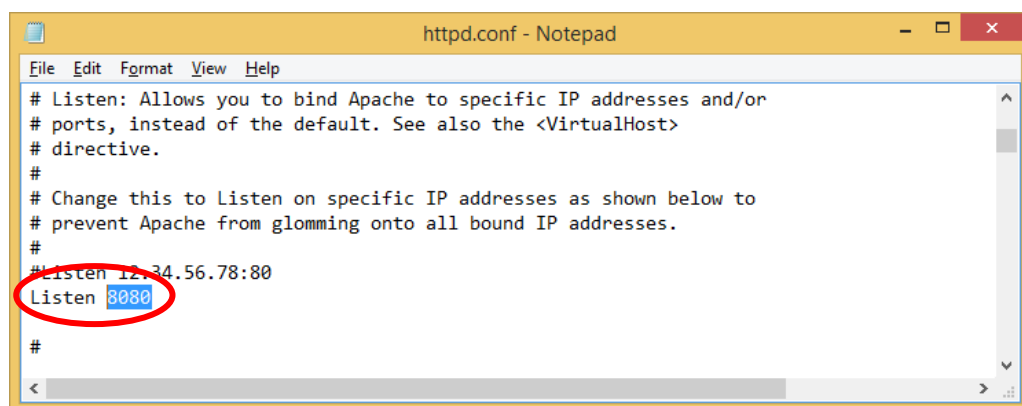
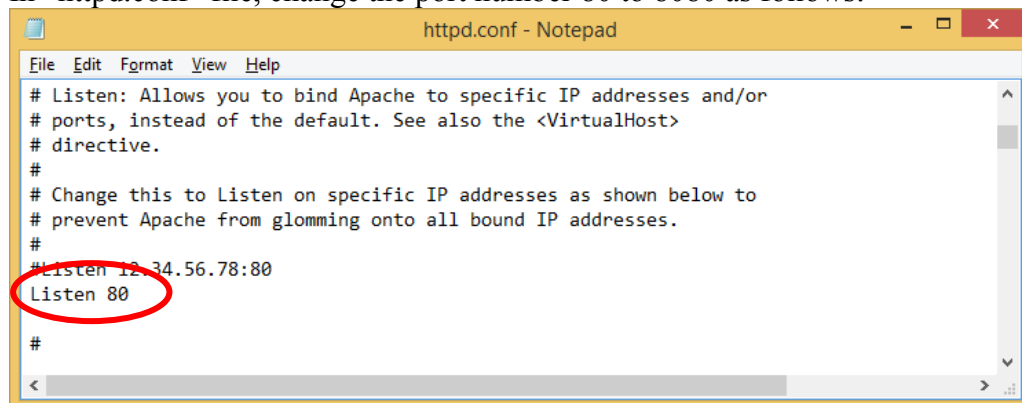
Wait until the end of Completing the XAMPP Setup Wizard and click “Finish” button.

1. During the installation process, a default set of configuration files will be placed in the “conf” directory (“C:\xampp\apache\conf” in our example). You may edit the configuration file “httpd.conf” by using a notepad.

Alternatively, you can config the file using the XAMPP Control Panel.



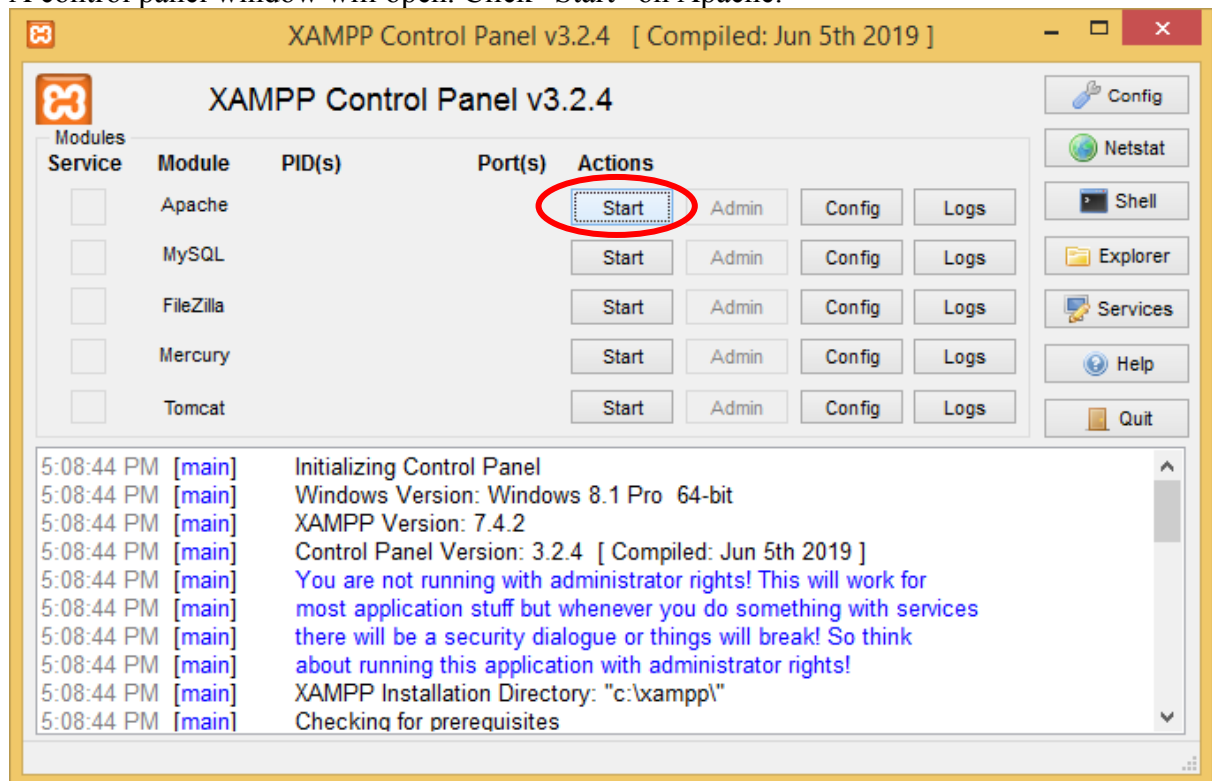
2. In “httpd.conf” file, change the port number 80 to 8080 as follows:



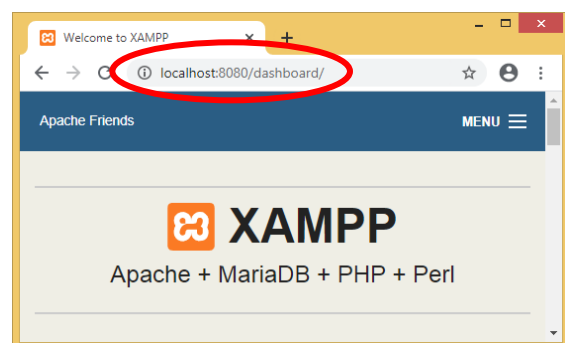
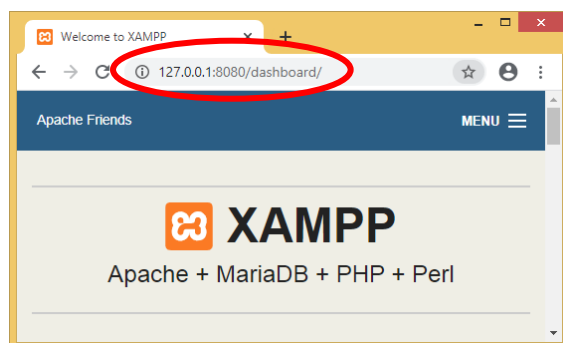
3. Save the “httpd.conf” file.
4. In your PC, start Apache by selecting Start => All Programs => XAMPP => XAMPP Control Panel. Right-click XAMPP Control Panel, then choose Run as administrator.

Or double-click C:\xampp\xampp-control.exe

5. A control panel window will open. Click “Start” on Apache.



6. In your own PC, open a Web browser and type: <http://127.0.0.1:8080> or <http://localhost:8080> to see the default installation page, containing links to the Apache web site and the Apache manual. (Note if the port no is 80, then browse <http://127.0.0.1> or <http://127.0.0.1:80> / <http://localhost> or <http://localhost:80> to see the default installation page.)



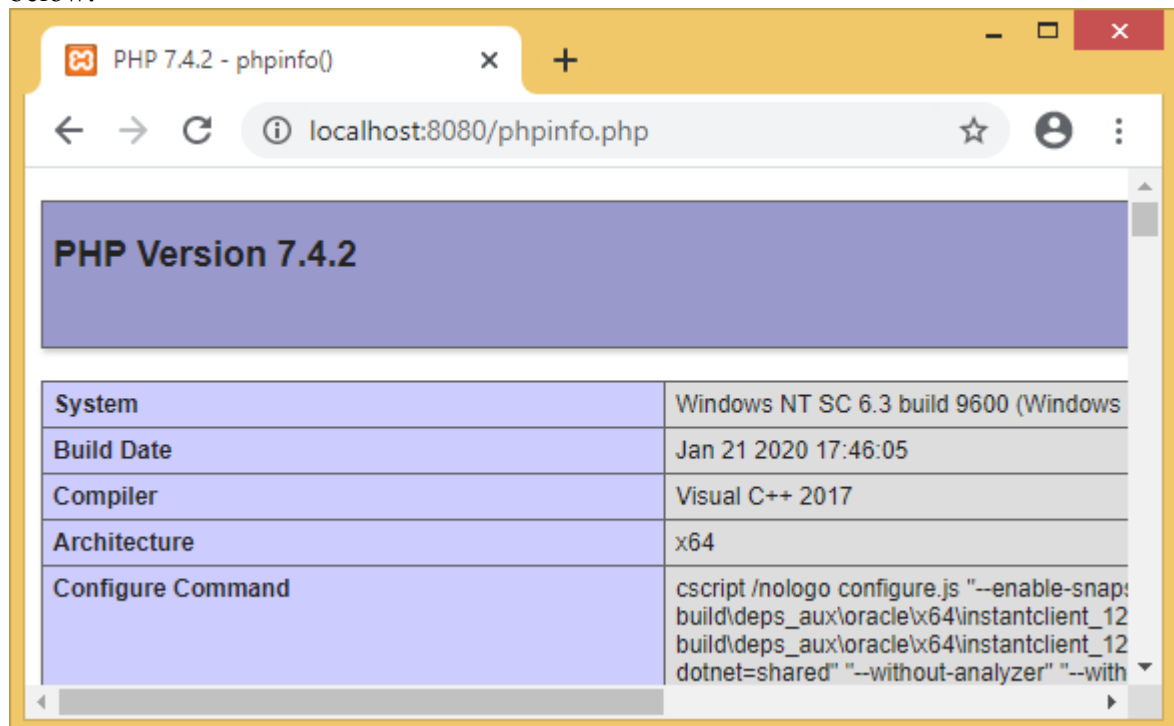
Lab 3 Running a PHP Script

1. Test the PHP environment but open a text editor and type this:

```
<?php
phpinfo();
?>
```

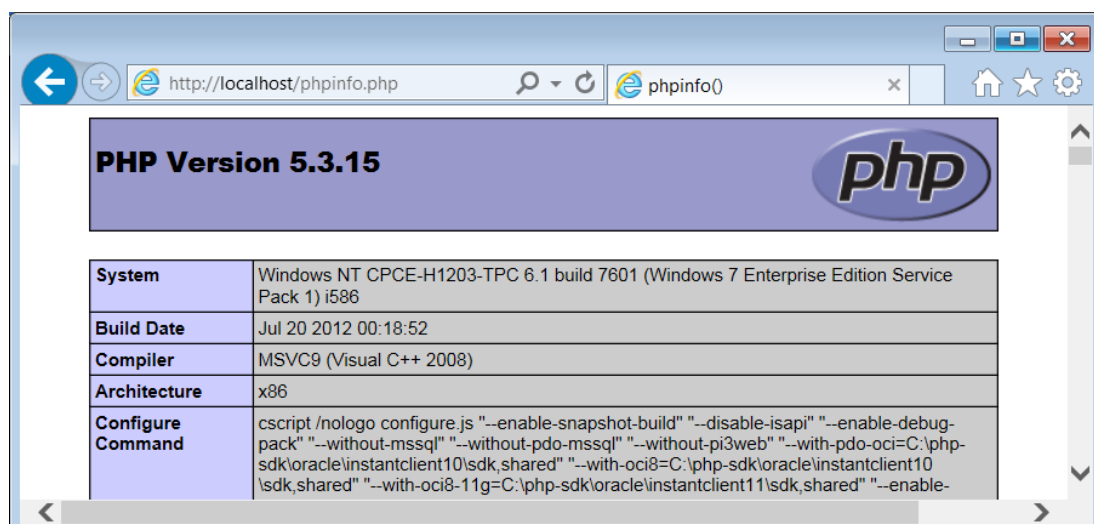
Save the file as phpinfo.php and put it in the document root of Apache (e.g. "C:\xampp\htdocs")

2. Start a browser and go to <http://localhost:8080/phpinfo.php>, you should see a page as below:



(Note: Apache and PHP have been installed and running in the computer labs.)

You can put the phpinfo.php file to D:\htdocs in the computer lab in Hung Hom Bay and West Kowloon campuses. Then, start a browser and go to <http://localhost/phpinfo.php>, you should see a page as below:

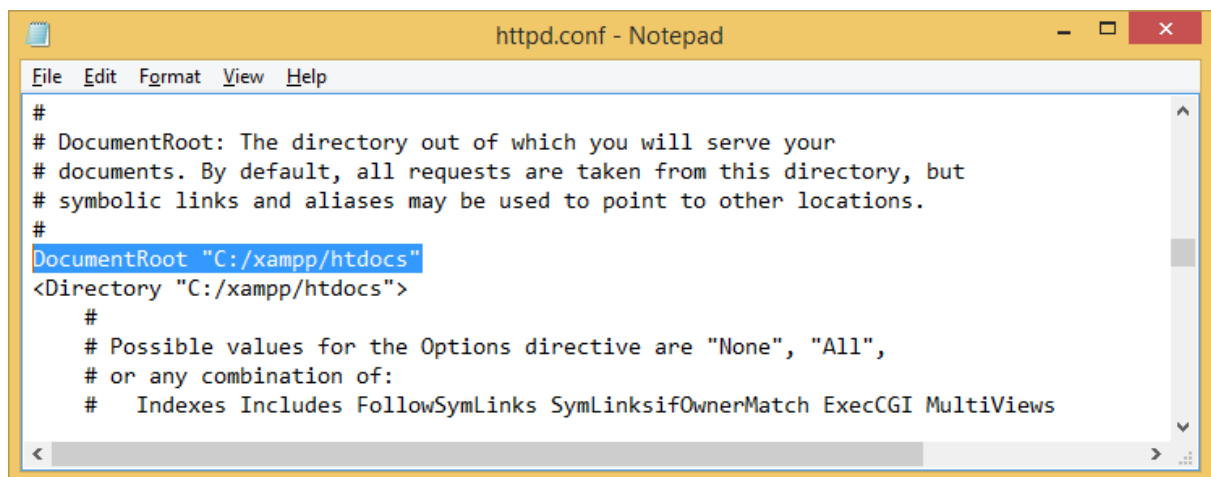


Lab 4 Running a Web page

1. Look for C:\xampp\htdocs (D:\htdocs in the computer lab in Hung Hom Bay campus and West Kowloon campuses) and use a text editor to create a simple HTML document, e.g. "Hello World!", then save as "hello.htm" or "hello.html" in that folder.
2. Get a MS-DOS prompt by clicking Start, then entering **command** at the text field box. Type **ipconfig** to check the IP address of your PC, e.g. 192.168.238.11
3. Start a client browser, e.g. Chrome, Safari, Firefox, Internet Explorer.
4. At the URL address textbox, say your PC's IP address is 192.168.238.11, then type `http://192.168.238.11:8080/hello.html` or `http://127.0.0.1:8080/hello.html` or `http://localhost:8080/hello.html` to view the result of your Web page hello.html

(in the computer labs, at the URL address textbox, says your PC's IP address is 192.168.238.11, then type `http://192.168.238.11/hello.html` or `http://127.0.0.1/hello.html` or `http://localhost/hello.html`)

6. In httpd.conf, look for the statement "DocumentRoot "C:/xampp/htdocs". The DocumentRoot directive specifies where the .html file should be located.



```
File Edit Format View Help
#
# DocumentRoot: The directory out of which you will serve your
# documents. By default, all requests are taken from this directory, but
# symbolic links and aliases may be used to point to other locations.
#
DocumentRoot "C:/xampp/htdocs"
<Directory "C:/xampp/htdocs">
    #
    # Possible values for the Options directive are "None", "All",
    # or any combination of:
    #   Indexes Includes FollowSymLinks SymLinksifOwnerMatch ExecCGI MultiViews
```