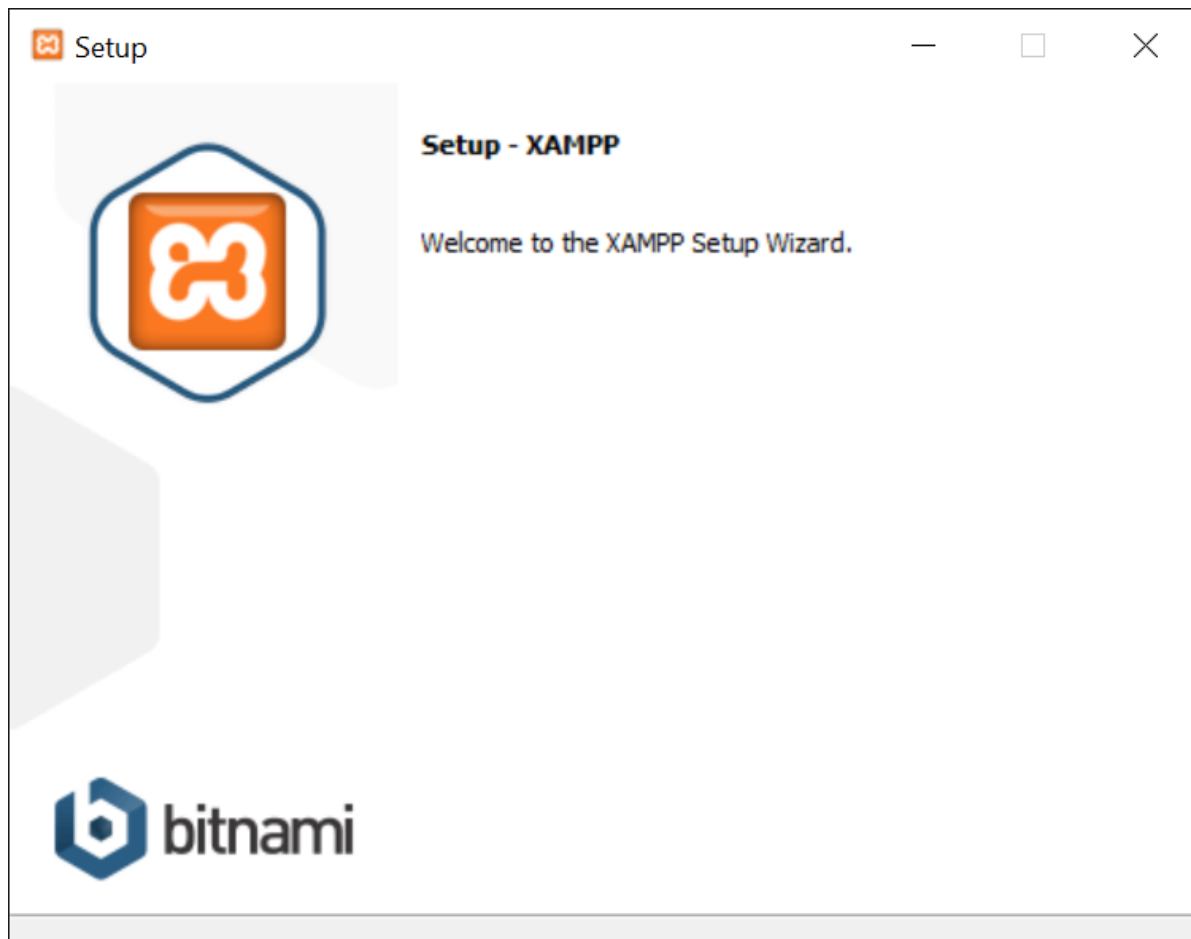


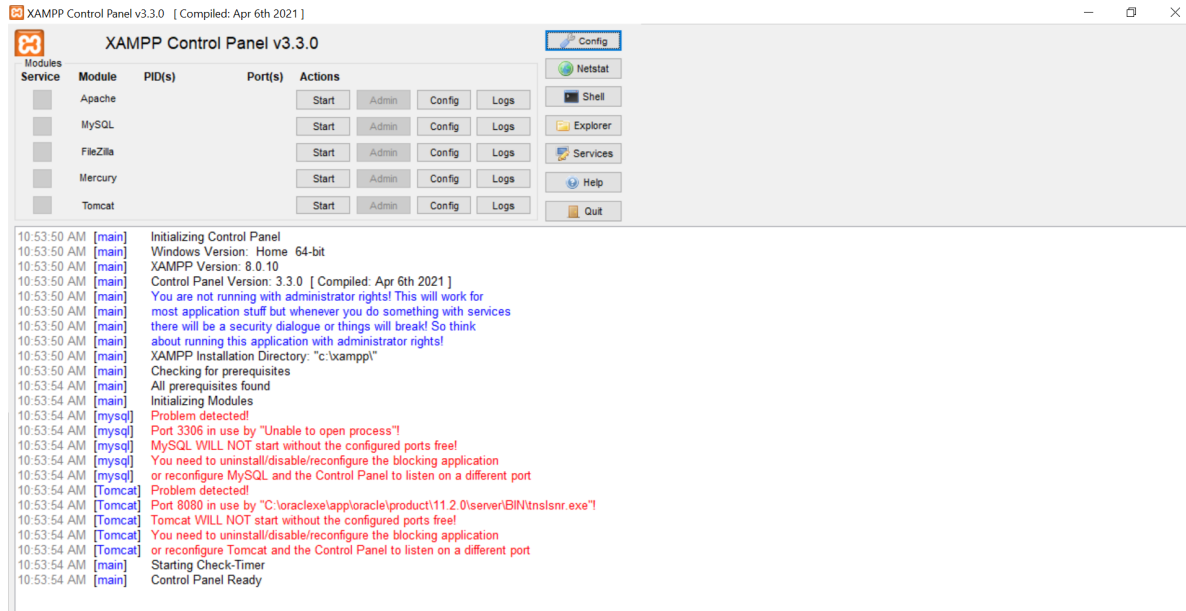
Practical no 4

To install and configure a web server

Problem statement 1:

1. Install a web server on your machine.
- Run the server locally.
 - Install XAMPP from <https://www.apachefriends.org/download.html>
 - Start XAMPP control panel -Start apache service

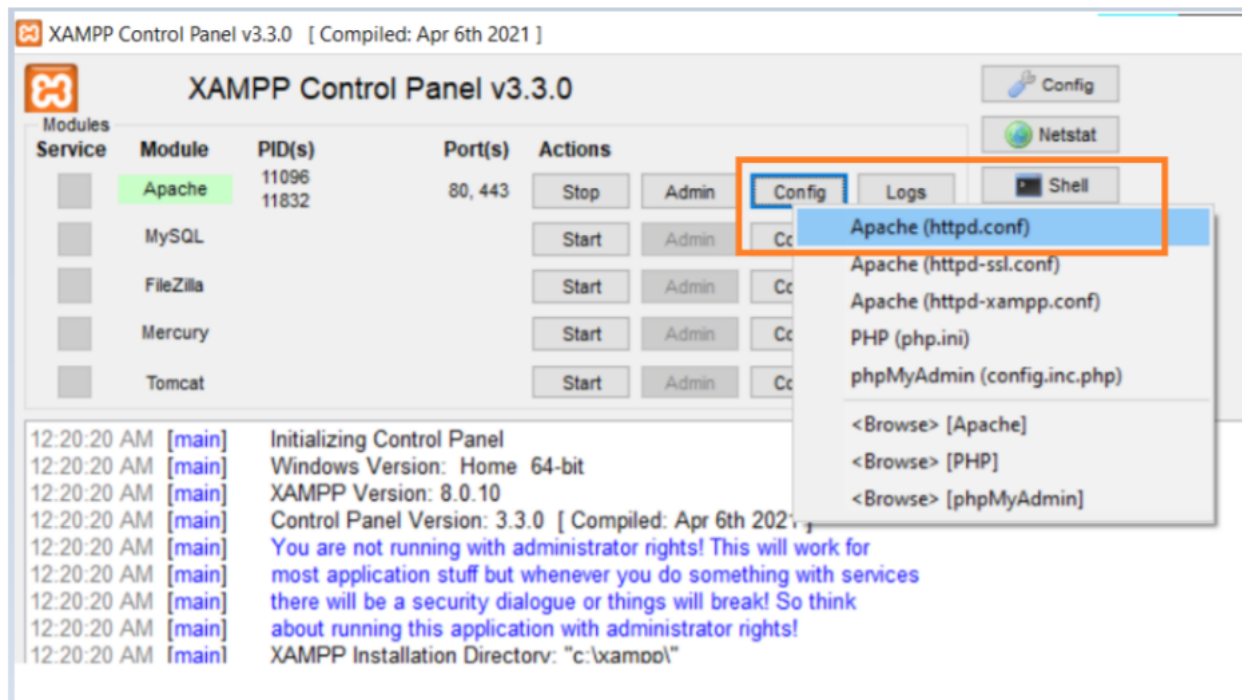




2. Locate and study its configuration file.

-Go to Apache->config->Apache (httpd.conf).

- The configuration file will open in the text editor. E g. Notepad



```
httpd.conf - Notepad
File Edit Format View Help

#
# This is the main Apache HTTP server configuration file. It contains the
# configuration directives that give the server its instructions.
# See <URL:http://httpd.apache.org/docs/2.4/> for detailed information.
# In particular, see
# <URL:http://httpd.apache.org/docs/2.4/mod/directives.html>
# for a discussion of each configuration directive.
#
# Do NOT simply read the instructions in here without understanding
# what they do. They're here only as hints or reminders. If you are unsure
# consult the online docs. You have been warned.
#
# Configuration and logfile names: If the filenames you specify for many
# of the server's control files begin with "/" (or "drive:/" for Win32), the
# server will use that explicit path. If the filenames do *not* begin
# with "/", the value of ServerRoot is prepended -- so "logs/access_log"
# with ServerRoot set to "/usr/local/apache2" will be interpreted by the
# server as "/usr/local/apache2/logs/access_log", whereas "/logs/access_log"
# will be interpreted as '/logs/access_log'.
#
# NOTE: Where filenames are specified, you must use forward slashes
# instead of backslashes (e.g., "c:/apache" instead of "c:\apache").
# If a drive letter is omitted, the drive on which httpd.exe is located
# will be used by default. It is recommended that you always supply
# an explicit drive letter in absolute paths to avoid confusion.
#
#
# ServerRoot: The top of the directory tree under which the server's
# configuration, error, and log files are kept.
#
# Do not add a slash at the end of the directory path. If you point
# ServerRoot at a non-local disk, be sure to specify a local disk on the
# Mutex directive, if file-based mutexes are used. If you wish to share the
# same ServerRoot for multiple httpd daemons, you will need to change at
# least two of the following directives:
```

3. Change the port number in the configuration file to any other valid port number.

-Return the server locally using the newly assigned port number.

-Change port no. at listen servername of conf. file

-Before changing the port:

```
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
```

```
#
```

```
#Listen 12.34.56.78:80
```

```
Listen 80
```

```
#
```

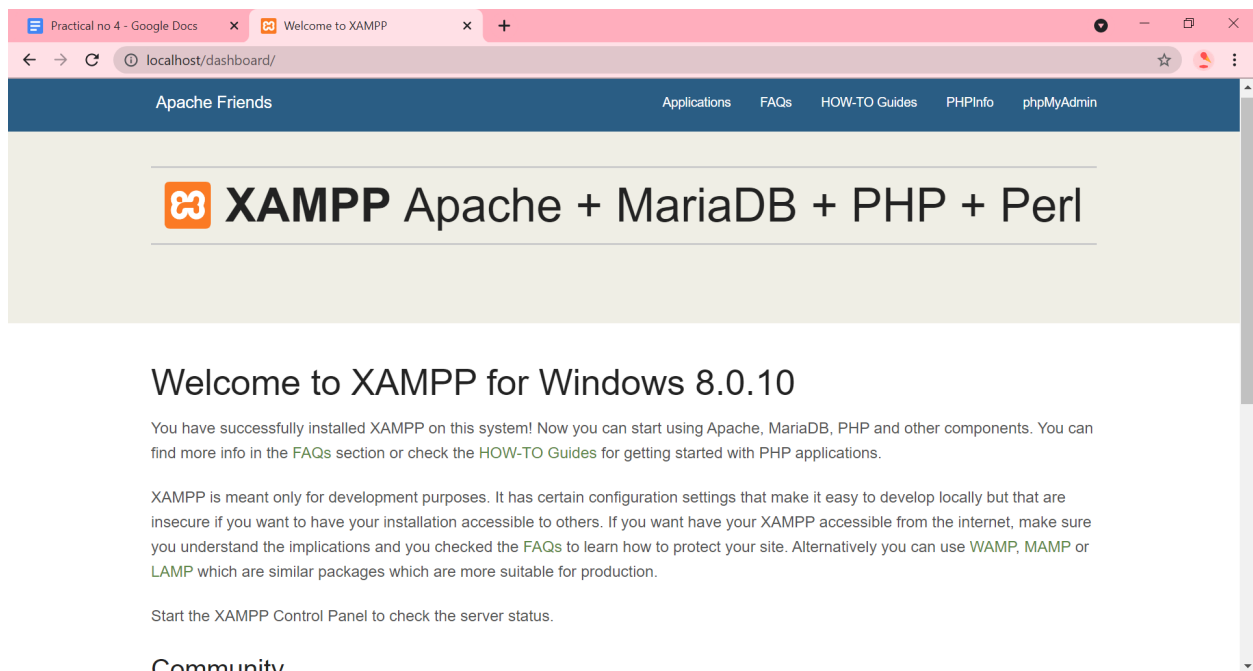
```
# Dynamic Shared Object (DSO) Support
```

```
#
```

-After changing the port no. to 8081

```
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 8081

#
# Dynamic Shared Object (DSO) Support
#
```

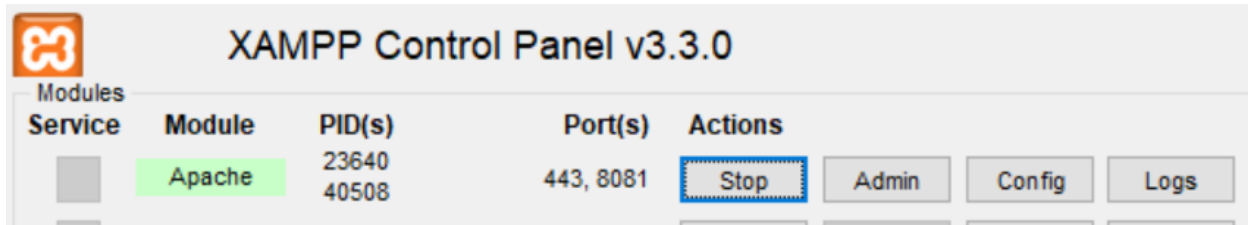


4. Change the default IP address (127.0.0.1 or localhost) and port number of the server in the configuration file to any other valid IP address and port number. Re-run the server and access it in a network from another machine.

-Before changing port and IP

```
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 8081

#
# Dynamic Shared Object (DSO) Support
#
```




-After changing port and Ip address:

```
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 80








#
# Dynamic Shared Object (DSO) Support
#






# If your host doesn't have a registered DNS name, enter its IP address here.
#
ServerName 192.168.103:80

#
```



XAMPP Control Panel v3.3.0

 Config
  Netstat
  Shell
  Explorer
  Services
  Help
  Quit

Service	Module	PID(s)	Port(s)	Actions
	Apache	42092 38160	80, 443	<div>Stop</div> <div>Admin</div> <div>Config</div> <div>Logs</div>
	MySQL			<div>Start</div> <div>Admin</div> <div>Config</div> <div>Logs</div>
	FileZilla			<div>Start</div> <div>Admin</div> <div>Config</div> <div>Logs</div>
	Mercury			<div>Start</div> <div>Admin</div> <div>Config</div> <div>Logs</div>
	Tomcat			<div>Start</div> <div>Admin</div> <div>Config</div> <div>Logs</div>

10:53:54 AM [Tomcat] Problem detected!

10:53:54 AM [Tomcat] Port 8080 in use by "C:\oracle\product\11.2.0\server\BIN\tnslsnr.exe"

10:53:54 AM [Tomcat] Tomcat WILL NOT start without the configured ports free!

10:53:54 AM [Tomcat] You need to uninstall/disable/reconfigure the blocking application

10:53:54 AM [Tomcat] or reconfigure Tomcat and the Control Panel to listen on a different port

10:53:54 AM [main] Starting Check-Timer

10:53:54 AM [main] Control Panel Ready

11:14:20 AM [main] Executing "c:\xampp\apache"

11:15:15 AM [main] Executing "c:\xampp\"

11:18:43 AM [main] Executing "c:\xampp\"

11:23:56 AM [Apache] Attempting to start Apache app...

11:23:56 AM [Apache] Status change detected: running

11:24:29 AM [main] Executing "services.msc"

11:24:33 AM [main] Executing "c:\xampp\"

11:24:37 AM [Apache] Attempting to stop Apache (PID: 35304)

11:24:37 AM [Apache] Attempting to stop Apache (PID: 1124)

11:24:38 AM [Apache] Status change detected: stopped

11:24:39 AM [Apache] Attempting to start Apache app...

11:24:40 AM [Apache] Status change detected: running

11:32:09 AM [Apache] Attempting to stop Apache (PID: 23640)

11:32:09 AM [Apache] Attempting to stop Apache (PID: 40508)

11:32:09 AM [Apache] Status change detected: stopped

11:32:52 AM [Apache] Attempting to start Apache app...

11:32:52 AM [Apache] Status change detected: running