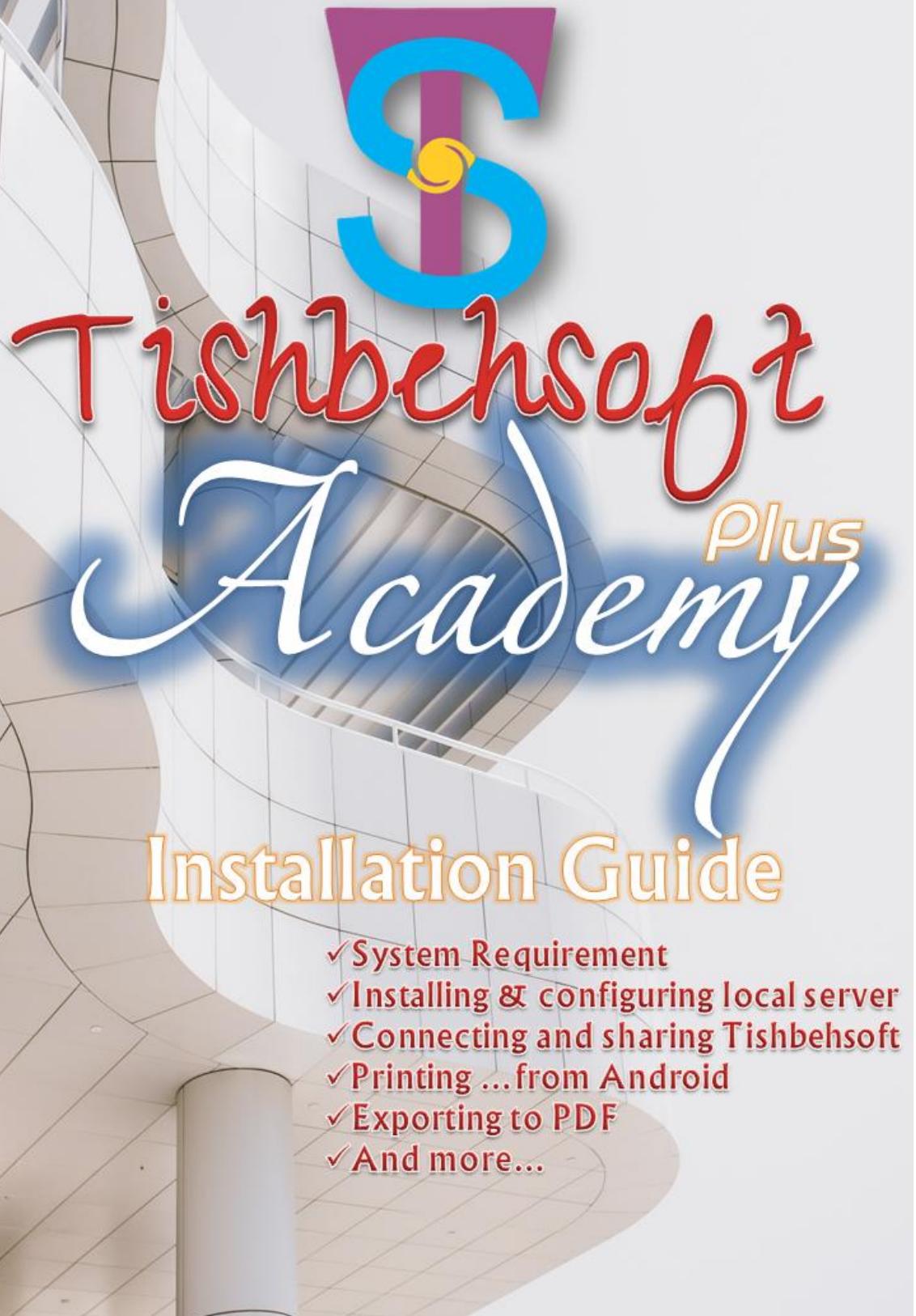




Tischbechsoft Academy^{Plus}

Installation Guide



✓ System Requirement

✓ Installing & configuring local server

✓ Connecting and sharing Tishbehsoft

✓ Printing ...from Android

✓ Exporting to PDF

✓ And more...

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GENERAL INTRODUCTION

This **Installation Guide** describes, in general, how to install and use Tishbehsoft Academy plus. This Installation Guide covers Minimum and recommended system requirement, installation of XAMPP local server, how to connect to Tishbehsoft Academy plus, how to share Tishbehsoft Academy plus, how to setup and share printers and how to print from a mobile phone. Though Windows 7 is graphically used in this Installation Guide, the commands however remain the same, on the interface depends on which window version you are using.

Tishbehsoft relies on third-party softwares, which some, as at the time of writing this Installation Guide, have undergone changes (updates). Caution, however, must be taken **NOT** to update these softwares as some functions have been deprecated. This applies particularly to XAMPP local server. Updating or installing higher versions may hamper the success and use of Tishbehsoft Academy plus. ***It is, therefore, not recommended that they should be updated!***

The processes described in this Installation Guide are carefully detailed and pictures attached for easy installation or use. Therefore, the steps should be religiously followed to ensure accuracy and getting the desired or expected result.

Minimum and Recommended System Requirement

The computer system on which Tishbehsoft Academy plus is installed is called the **HOST COMPUTER**. It should be a **Laptop** running on **Windows Operating system**, with **WiFi enabled capabilities** (for wireless network) or Desktop (and/or laptops) with functional cabled Local Area Network (LAN) installed.

	Minimum	Recommended
Operating System	Windows 7	Windows 7, 8, 8.1 or 10
RAM	1GB	4GB

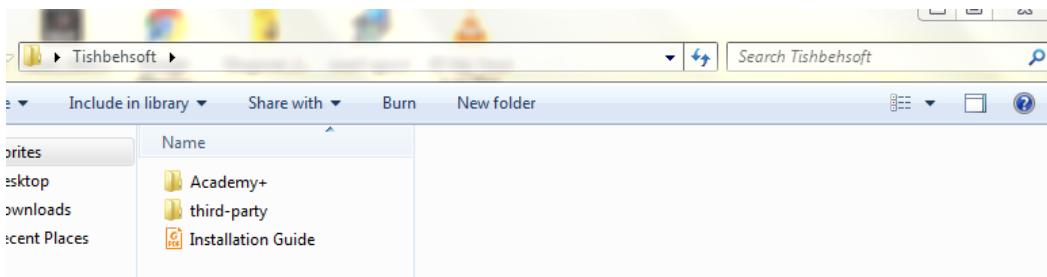
Generally, both the host computer and other connecting devices should have, preferably, **Google Chrome browser** – both for PC or Android. Chrome version 59 or higher is recommended for PC and Android. Chrome was used to test this project, and hence it is **chrome-compliant**. There are functions and displays that are not supported by other browsers, particularly for Android smart phones. Most mobile browsers do not support the **print** functions for Android or mobile phones. If Android mobile phones are to be used for printing, it is **recommended** that chrome web browser should be use.

On PC, most browsers do very great, but **Microsoft's Edge browsers** may be used for any other functions, except **printing**. It does not support background object display. Latest versions of UC and Opera browsers are also good-to-go because they are Chrome-based.

INSTALLATIONS

Whether you downloaded Tishbehsoft from our website or given to you on a CD, it comes as a zip compressed package.

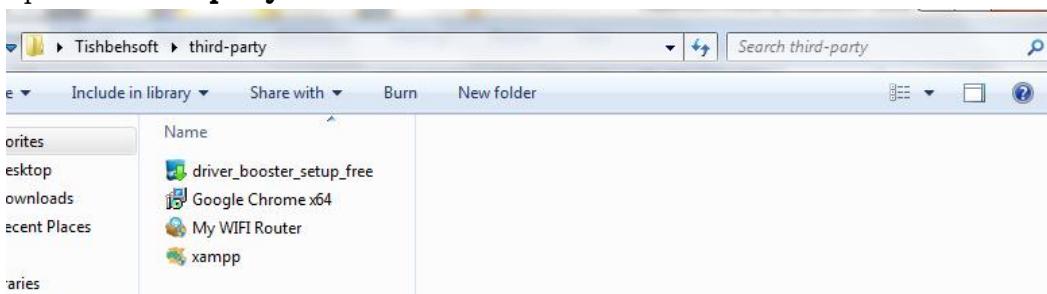
1. Unzip the package (preferably to your desktop) by right-clicking on it. From the list of options, select **Extract here**.
2. A folder is created, called Tishbehsoft. Open it and you will see two folders (**Academy+** and **third-party**).



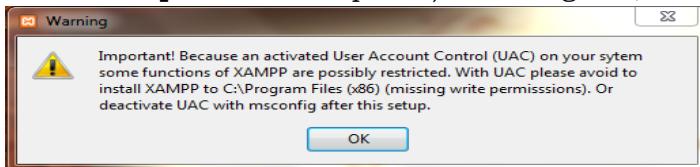
Installing XAMPP local Server

Begin installations by installing the XAMPP local server from the third-party folder.

1. Open the **third-party** folder



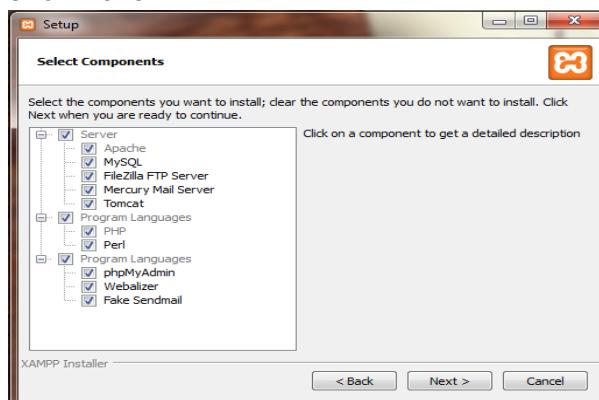
2. **Double-click** the '**xampp**' application to begin installation (or **right-click** and select **open** from the options). On doing this, the following is displayed:



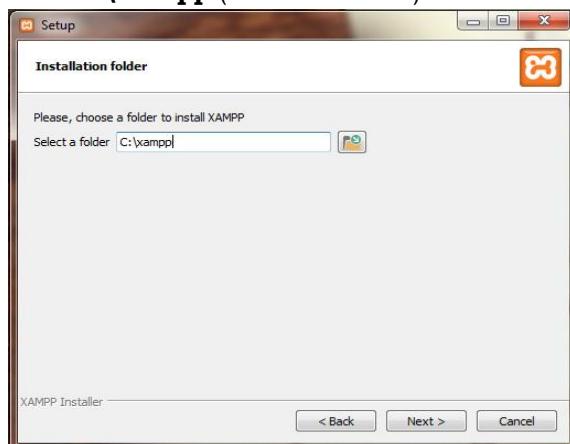
3. Click **Ok** to continue.



4. Click **Next**



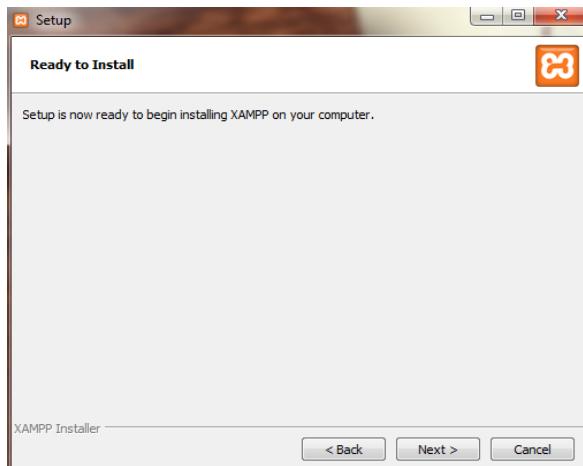
5. Click **Next**. A default installation location is shown. Please **do not change** it from **C:\xampp** (leave it as it is).



6. Click **Next**. **Deselect** the '**learn more about Binami for xampp**' checkbox.



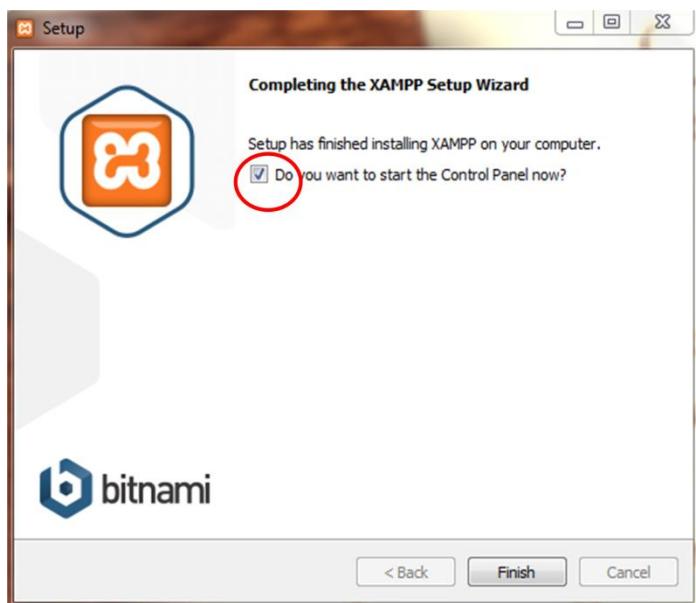
7. Click **Next**.



8. Click **Next**. XAMPP local server begins making installation progress:



9. Wait for the installation to finish. When installation completes, the following is displayed:



10. **Deselect the 'Do you want to start the Control Panel now?'**



11. Click **Finish**.

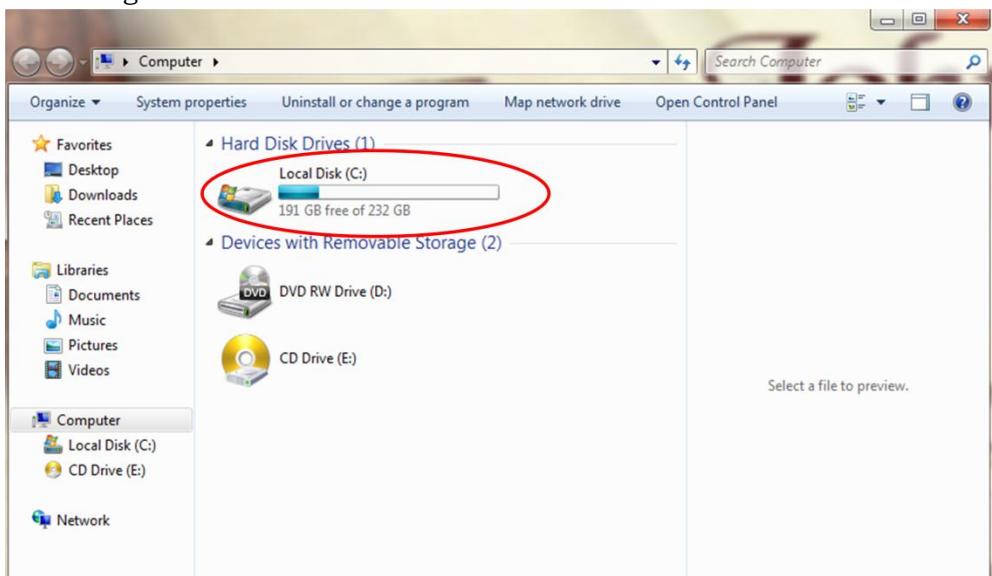
Removing Unessential Files and Folders

The just installed XAMPP local servers contain folders and files we do not need. In fact, if they are left, Tishbehsoft Academy plus will not run properly. The next thing to do after installing the XAMPP local server is to delete those files and folders.

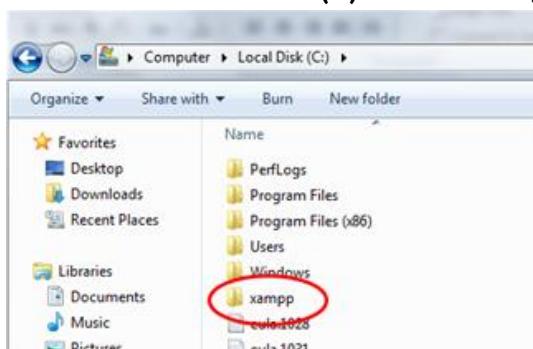
1. Open **window file explorer** by clicking **the yellow-folder-like icon** on the



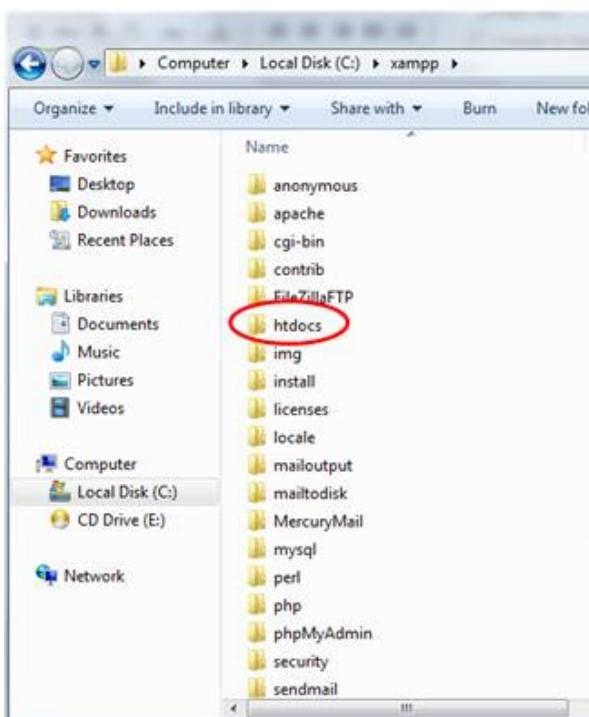
Alternatively, press the **window key** together with letter **E** (**Windows + E**) on the keyboard. You can also click the start button on the task bar and select **Computer** from the start menu. Any of these methods should yield something like this:



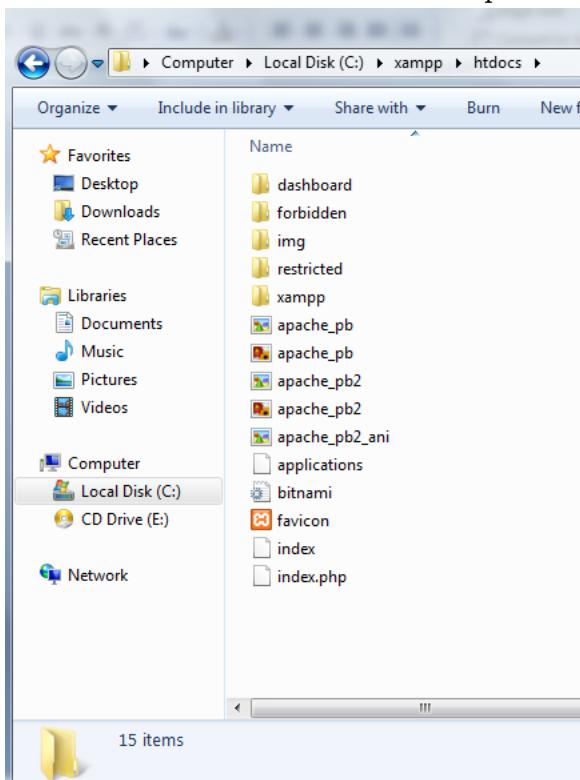
2. Right click the **Local Disk (C)** and select open from the option. You can also double click **Local Disk (C)**. The following will be displayed:



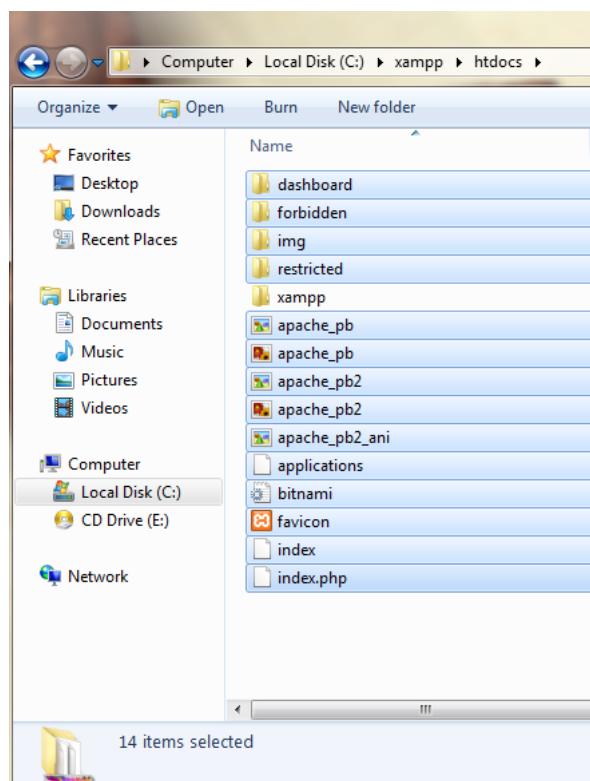
3. Open the **xampp** folder from the list of folders and files by **right-clicking** and selecting open from the options (or by double-clicking the xampp folder). The following will be displayed:



- Locate the folder called **htdocs** and open it. The following will be displayed.

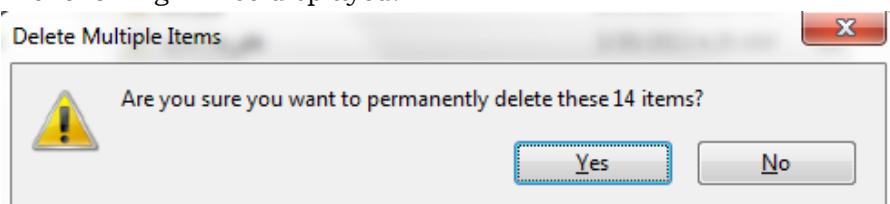


- Select **All files and Folders EXCEPT xampp** folder. **DO NOT SELECT THE xampp folder**. To select multiple files or folders, hold down the **control key**(ctrl) on the keyboard, keep it pressed down as you click (with the mouse) on the files and folders. Once you are done, it should look like this:

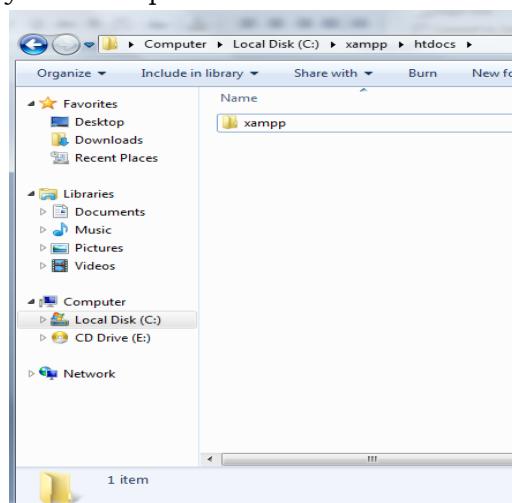


*Please note that the xampp folder is **NOT** selected.*

6. Press the **Delete** key on the key board to delete the selected files and folders. The following will be displayed.

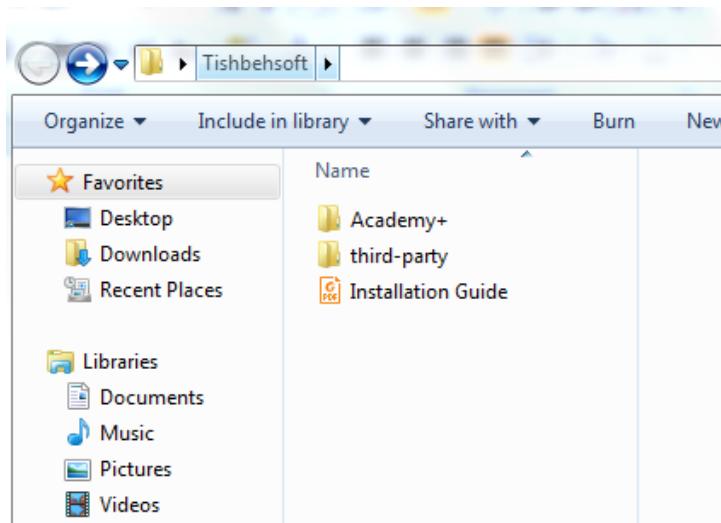


7. Confirm the delete action by clicking the **Yes** button. After the delete action, your file explorer should look like this:

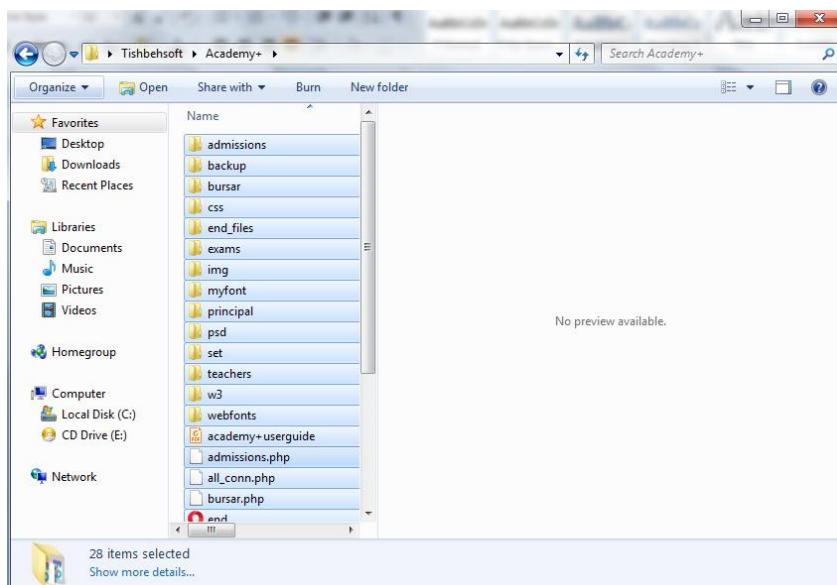


Copying Necessary Files and Folders to XAMPP Local Server

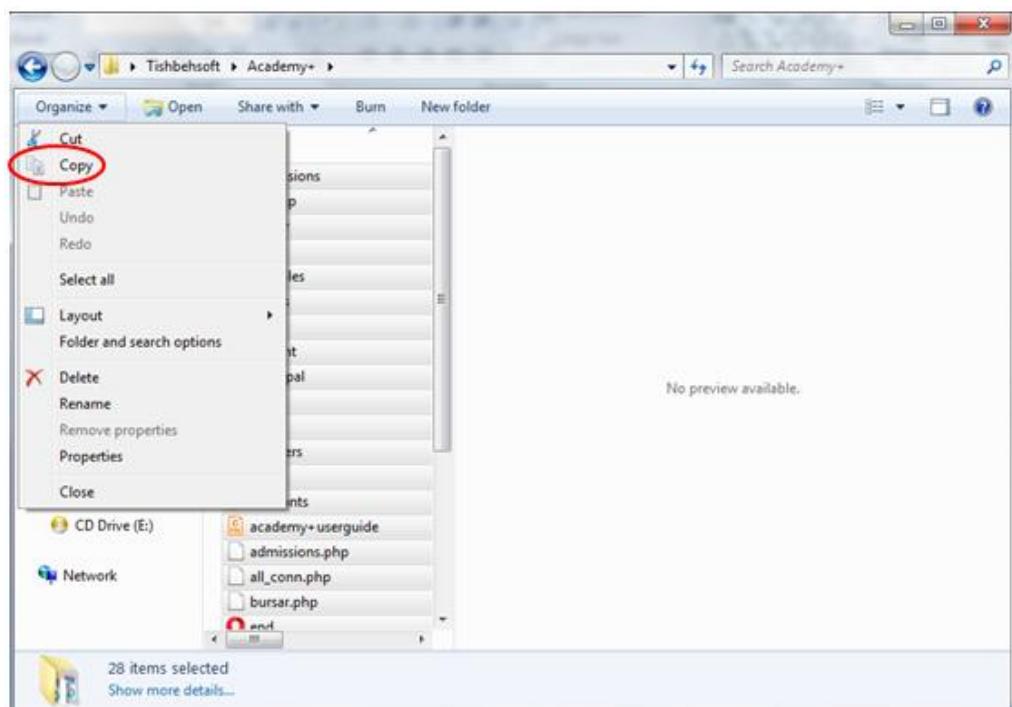
While still in the **htdocs** folder, minimize the file explorer window and open the **Tishbehsoft** folder containing installation files, folders and softwares (the one you downloaded or copied from a CD to the desktop).



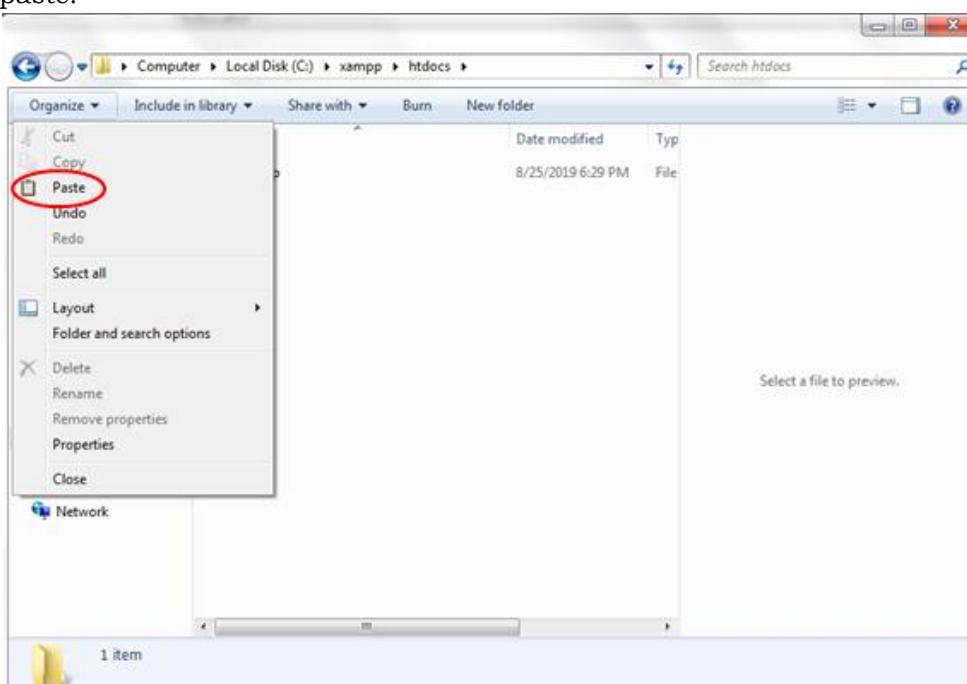
1. Open the **Academy+** folder. Select All files and folders either by holding down the control (ctrl) key on the keyboard and using the mouse to click on each item or by selecting the first item and then pressing the control key together with A on the keyboard (**ctrl + A**). This command selects all folders and files. It should look like this:



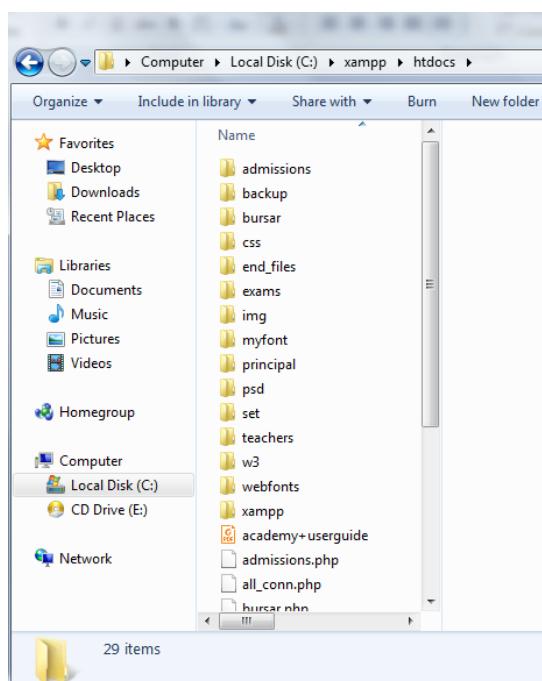
2. Click the **Organize** button at the top and from the list select copy. Alternatively, press the control key together with letter **C** on the keyboard (**ctrl + C**) to copy all the folders and files.



3. Next, you go back to your **htdocs** folder (where you had earlier deleted folders and files). Click **organize** at the top and from the options, select **paste**. Alternative, right-click a blank space and from the options, select **paste** or press the control key on the keyboard together with **V (ctrl + V)** to paste.



Your **htdocs** folder should look like this after all the folders and files have been copied (copied folders and files + xampp folder). **Close** the file explorer(s).

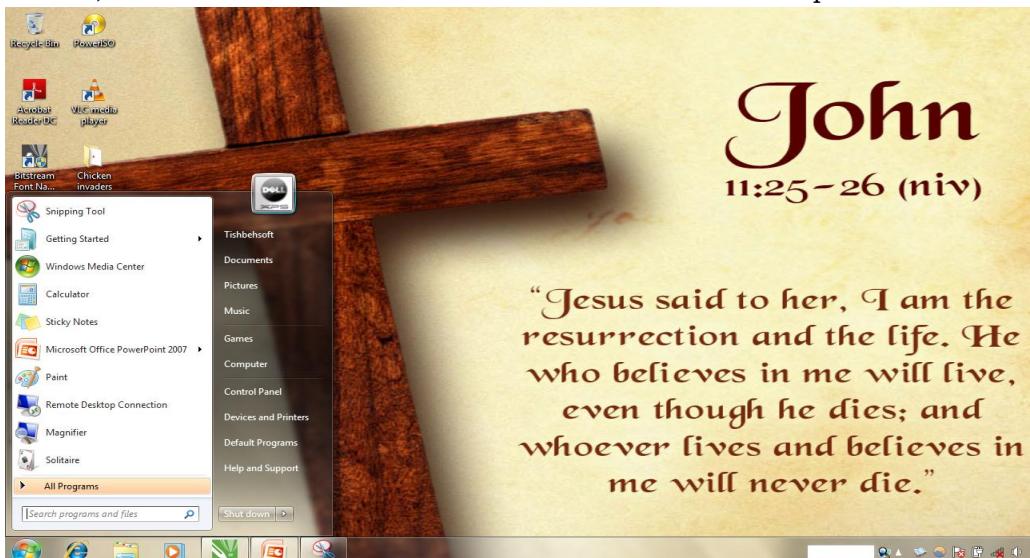


STARTING AND CONFIGURING THE XAMPP LOCAL SERVER

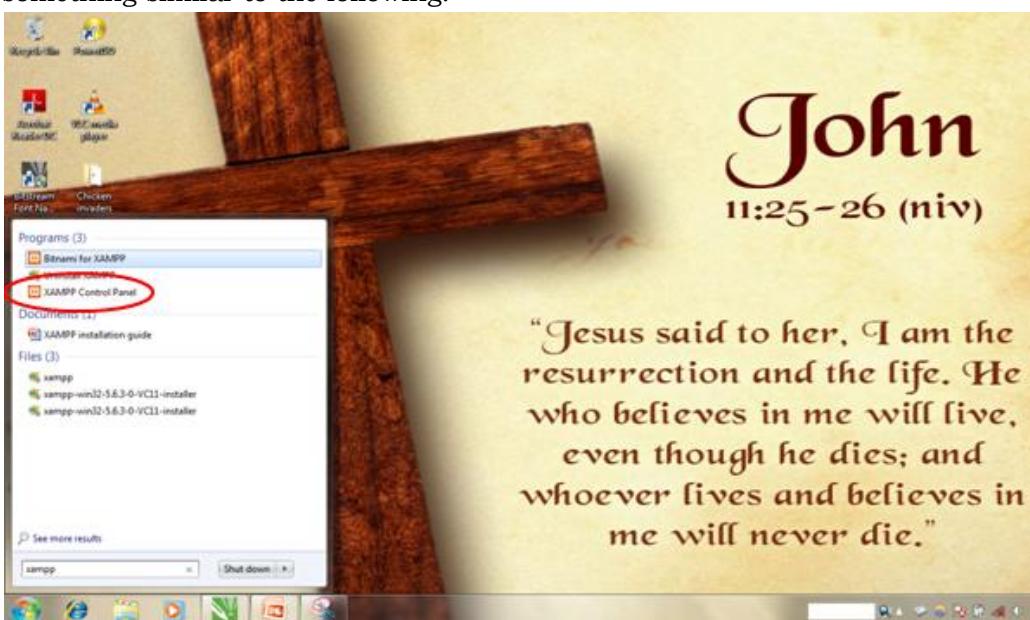
Creating Shortcut for XAMPP Control Panel

The next thing to be done is to create a shortcut that will help us easily access the just installed XAMPP local server on the host computer. To do this:

1. Press the window ()key on the keyboard or click on the **start button** on the task bar. Something similar to this will show (don't mind the window version, it works all the same. Windows 7 is used in this example).



2. As the start menu pops up, just type '**xampp**'. The search should yield something similar to the following:



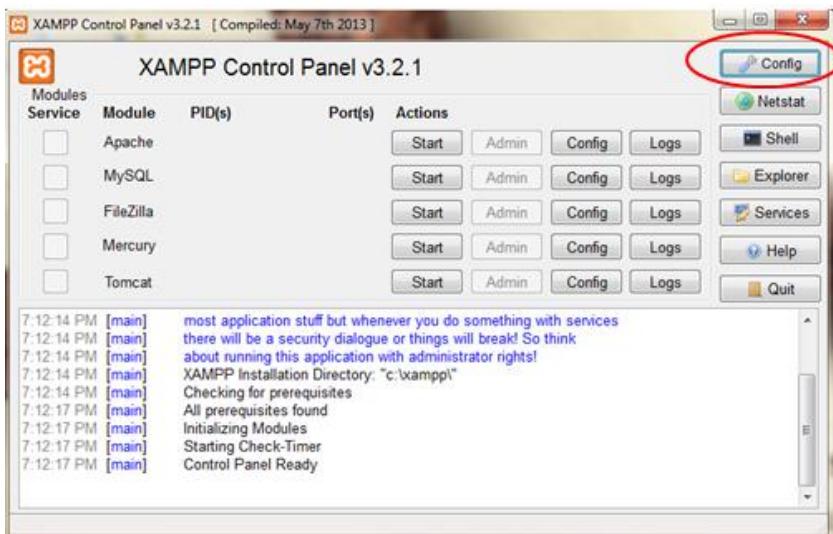
3. **Right-click** on **XAMPP Control Panel**.
4. From the list of options, select '**Pin to Taskbar**' (recommended) or choose '**Pin to Start Menu**'.

- If '**Pin to Taskbar**' is selected, something similar to this will appear on the taskbar of the host computer.



Launching XAMPP Local Server

From the just created shortcut to the taskbar or start menu bar, just click on the shortcut to launch XAMPP local server. The XAMPP Control Panel Opens:



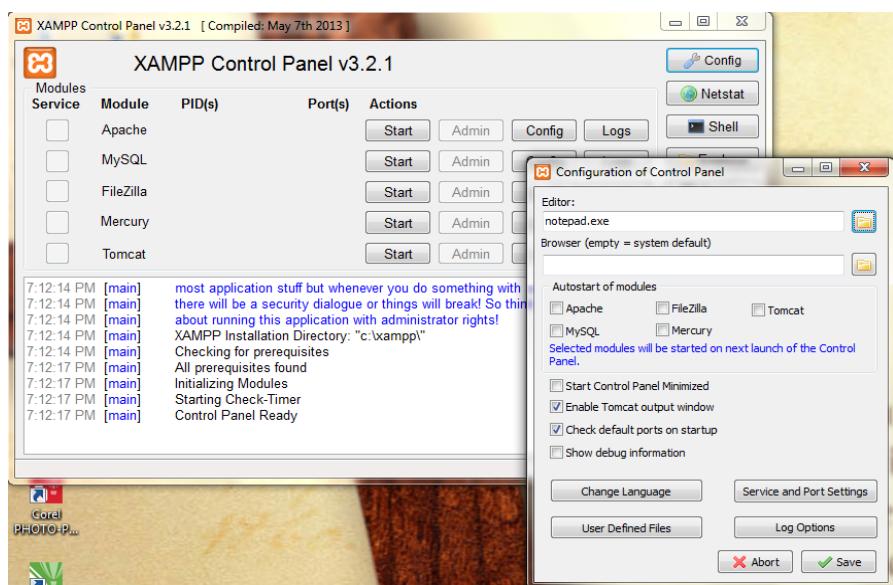
Please note that starting your Local server is the first thing you will do each time you want to use Tishbehsoft Academy Plus. Please take note and ensure the shortcut is close and easy to access.

Configuring Apache and MySQL services

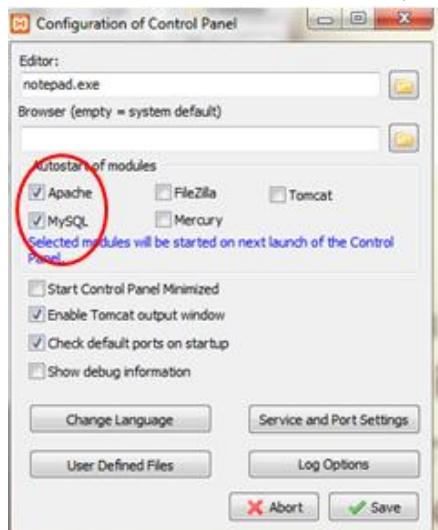
The XAMPP local server you installed comes with several services, but you need just **two** of those services to run Tishbehsoft Academy plus. It is not wise to always manually start these services each time you launch your local server; hence the need to configure them to **auto-start** each time you launch the XAMPP local server.

To do this:

- From the XAMPP Control Panel interface, click the **config** button at the right-top corner of the panel. The following appears:



2. Under the **Autostart modules**, check the **Apache** and **MySQL** check boxes.



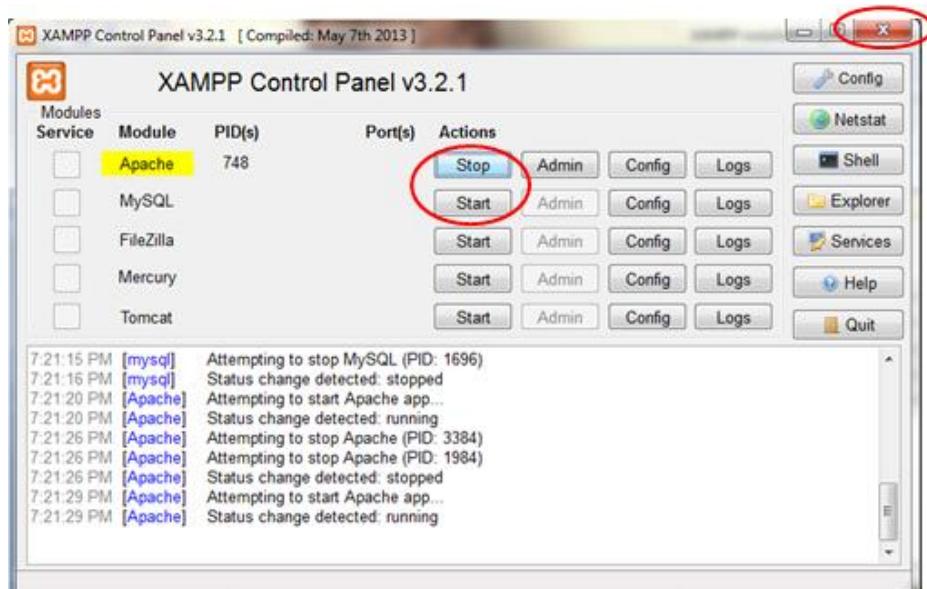
3. Click the **save** button at the bottom (the Configuration of Control Panel window disappears).

Please note that this action ensures that you do not manually start the Apache and MySQL services when next you launch the XAMPP control panel.

Starting Apache and MySQL services

With the Configuration of Control Panel window closed:

1. Click the **start button** opposite **Apache**
2. Click the **start button** opposite **MySQL**



- Wait for the colour indicators for both **Apache** and **MySQL** to change (from yellow) to green.

Please note that your firewall will require (once) that you grant access to the just installed XAMPP local server.





Please click (all) the '**Allow access**' buttons.

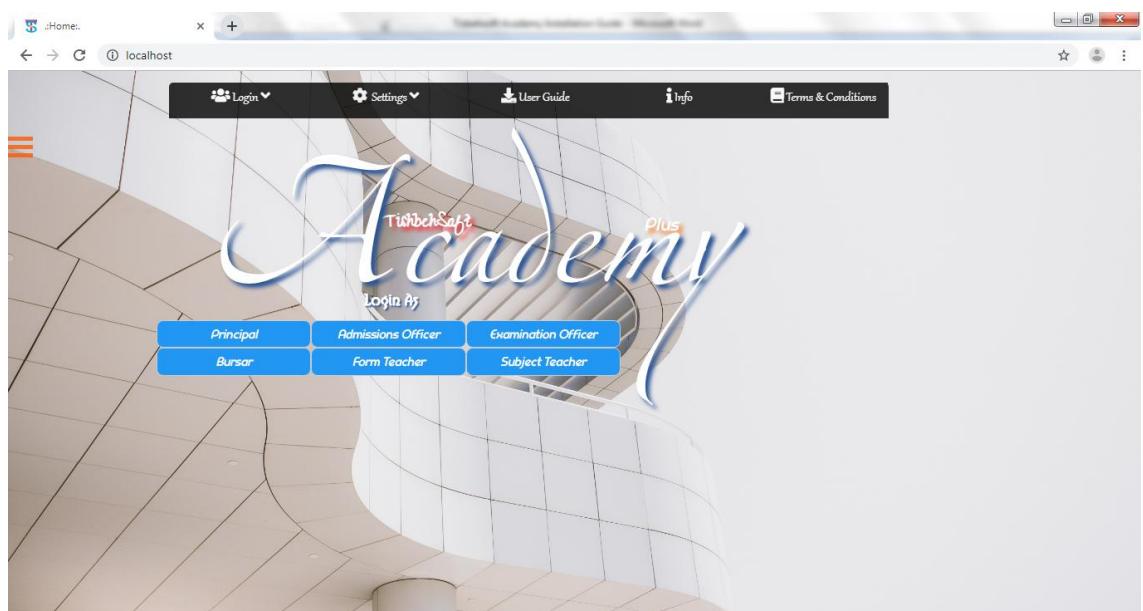
4. Click the **red x** button at the top far right hand side of the control panel

Please note, **DO NOT** click the **QUIT** button at the lower part of the Control Panel window. It has a different function from the **close button**.

Testing in a Web Browser

With the two services started (Apache and MySQL) and their colours changed to green:

1. Launch a web browser (preferably Google Chrome browser – you can install Chrome Version 69 provided in the installation folder or download the latest version from the internet).
2. In the address bar, type the word '**localhost**'.
3. Press the Enter key on the keyboard.

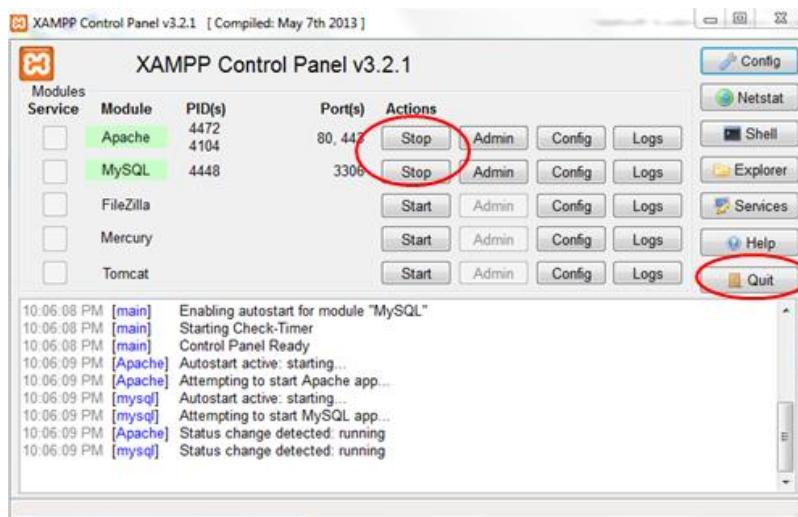


If the above window shows in the browser, then **congratulations!** You have just successfully installed and configured Tishbehsoft Academy plus.

Stopping XAMPP Services and Quitting

After using Tishbehsoft Academy(plus), it is recommended to properly stop and quit XAMPP control panel. To do this:

1. From the XAMPP Control Panel, click the buttons for **stop**. These buttons are opposite the Apache and MySQL. Doing this turns off the green indicator.
2. At the bottom-right-hand side of the control panel, click the **quit** button.



After clicking the quit button, XAMPP finally closes (completely).

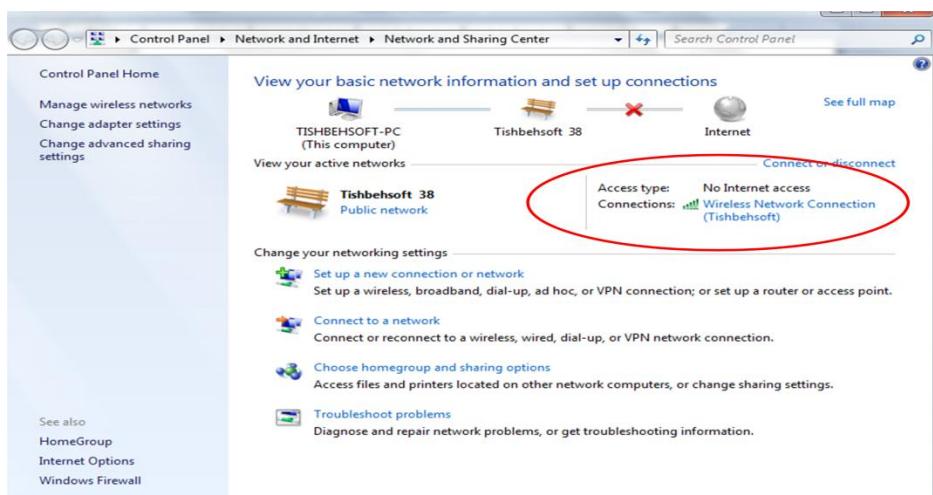
ACCESSING TISHBEHSOFT ACADEMY+

There are various ways to connect to Tishbehsoft Academy+ software once computer devices have been connected to a network (*see below on how to create and join wireless network*). The network may be cable or wireless network. Various methods are described below, but first, you need to know the **host computer's IP address** or **name**. (Recall that the host computer is the computer on which Tishbehsoft Academy+ has been installed on).

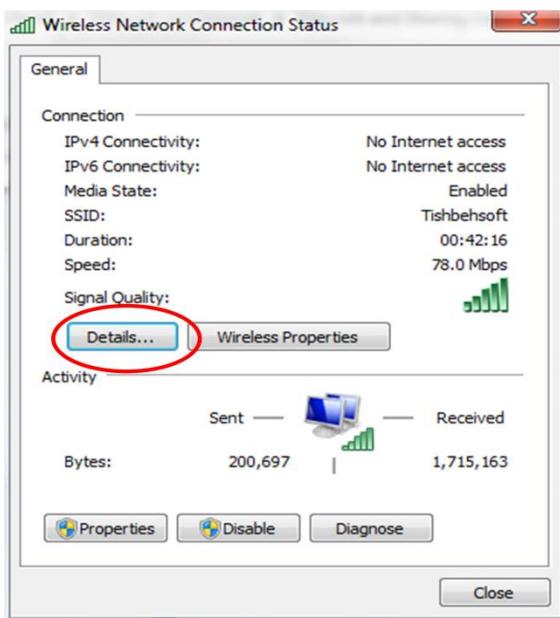
Locating host computer's IP address

You can use the host computer's IP address to connect to Tishbehsoft Academy+ by simply typing the IP address in your browser's address bar. The IP address is simply a set of digits separated by dots. A typical IP address looks something like this: **192.168.23.1**. Each computer's IP address on the same network is unique (no two computers on the same network – cable or wireless network – have the same IP address). Note, if your computer device (laptop, desktop or smart phone) is not the host computer and you are connected to the same network, you have your unique address too. Here you are to **look up the IP address of the host computer, NOT your own IP address**. To look up the IP address of the host computer, do the following **ON THE HOST COMPUTER**:

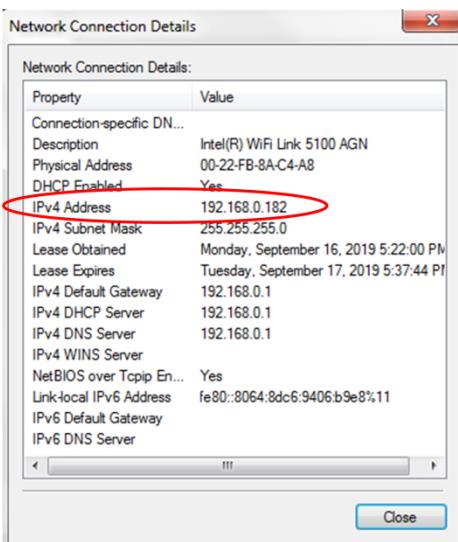
1. Press the window key () on the keyboard
2. Immediately, type the word '**network**'
3. Click on '**Network and Sharing Center**' from the search list. Something similar to the following is displayed:



4. Beside '**connections**', click on the connection name



- From the network connection status, click on the '**Details**' button



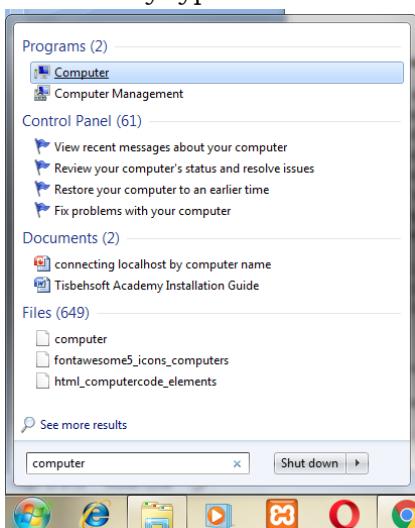
- Locate '**IPv4**' from the Network Connection Details box. Opposite the IPv4 is your IP address (in this case, **192.168.0.182**).

This unique set of digits is to be used to connect to Tishbehsoft Academy+ on laptops, desktops or smart phones (Android). Simply open a web browser (on your computer or Android) and enter these digits into the address bar.

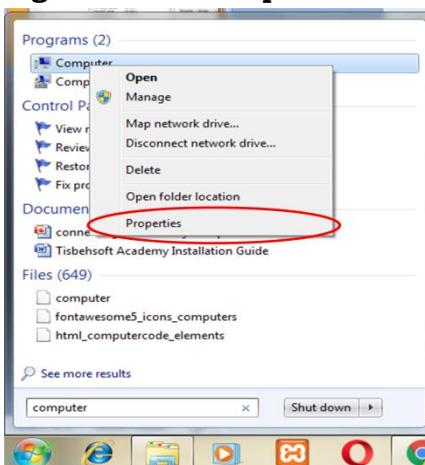
Locating Host Computer's Name

We all know digits are not sometimes memory-friendly. An IP address may be cumbersome to memorize or difficult to remember. Fortunately, the host computer's name can also be used instead of IP address. It must however, be stated that **IP address are more reliable compared to computer names**, especially on mobile phone browsers (using wireless connections – there may be unpredictable outcomes with computer names). To use the host computer's name to connect to Tishbehsoft Academy+, other computers (laptops, desktops or smart phones) must be connected to the same network. To locate the host computer's name:

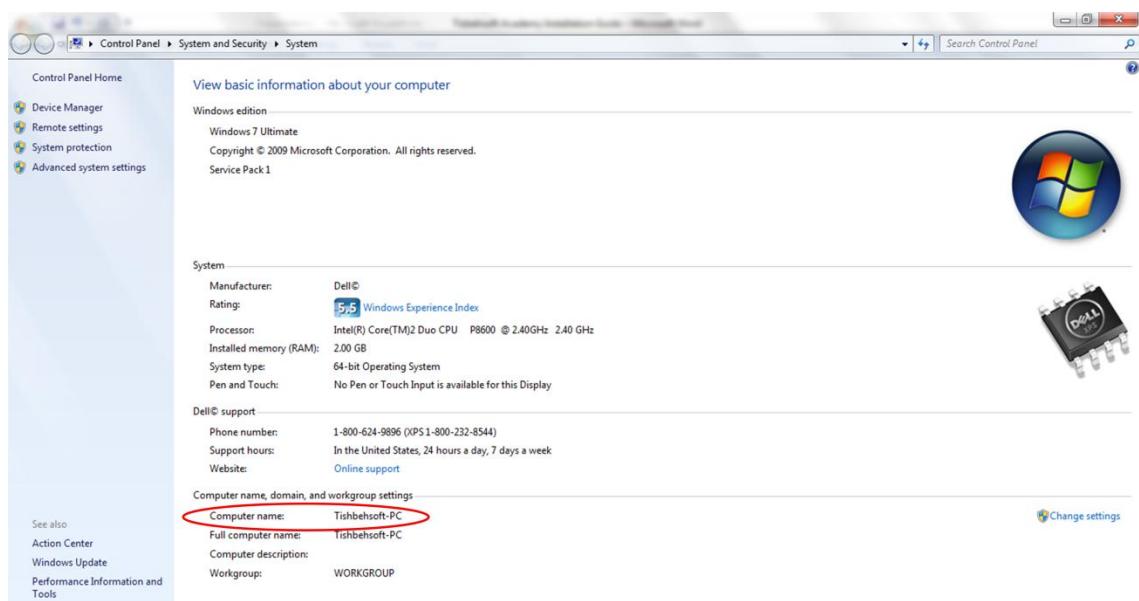
1. Press the window key()
2. Immediately type the word '**computer**'



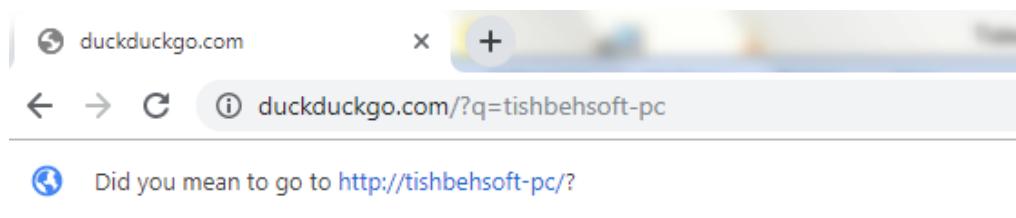
3. **Right-click** on **computer** from the list of items displayed.



4. From the right click options, click '**properties**'



5. Locate the Computer name (in this case, **Tishbehsoft-pc**), somewhere down the system information page.
6. Enter **this name** (or in full type **http://** followed by the computer name. e.g. **http://tishbehsoft-pc**) into the web browser's address bar and press the enter key on the keyboard. Google chrome browser may ask you once, something like this:



Simply click on the **computer name** to connect.

It should be noted that smart phones (Android) **may** behave different when using computer names. This anomaly occurs mostly when you are using a wireless router (popularly called Mifi or Wifi device or dongle). The router (depending on the make) may, after some time, fix all domain names to default homepage to its own homepage (overriding the Domain Name Server – DNS). This will open the router's homepage instead of Tishbehsoft Academy+. The way around this is to get all smart phones ready to connect before starting the router. And immediately, before the router overrides all domain names, connect to the router's Wifi and enter the host computer name quickly. Alternatively, use IP addresses instead.

Accessing Tishbehsoft Academy+

You can connect to Tishbehsoft on the host computer using following methods:

1. IP address (Its own IP address – type the IP address into the web browser's address bar).
2. Computer name (its own computer name – type the host computer's name into a web browser's address bar)
3. Using the keyword '**localhost**' (type localhost into the web browser's address bar)
4. You can use the fixed unique IP address 127.0.0.1

Any of the above will work on the host computer. ***Please note that the last two methods (3 and 4) will not work on other computers that are not the host.***

SHARING TISHBEHSOFT ACADEMY+

This section describes how to establish simple computer networks and share Tishbehsoft Academy+ so others could access them on other computers (desktops, laptops and smart phones) apart from the host computer itself. This section should be read and studied carefully. The ability to distribute Tishbehsoft over a computer network is what makes it fun to use by distributing the workload, reducing the effort and multiplying the effect (encourages team work).

On a cable network, only the host computer's IP address or name is needed. In this section, much attention is given to sharing Tishbehsoft Academy+ on wireless network.

Here, two methods are described on how to establish, share, distribute or access the Tishbehsoft Academy+ over a wireless network, beginning with the more economical method.

Method1: My Wifi Router

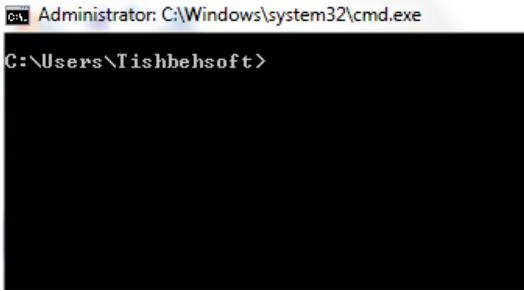
My Wifi Router is a free open source third party software provided in the installation folder to encourage building network at no cost at all. What this software does is to turn your PC (laptop or desktop with wireless capabilities) into a PC that can create and share wireless network. Usually, PCs can only receive (connect to a wireless network) without the ability to create one themselves (at least not directly).

My Wifi Router software simply gives your PC that creating ability (similar to your smart phone's **hotspot**) so that other computers (desktops, laptops and smart phones) can join or connect to the same network. My Wifi Router should be installed on the host computer.

Although My Wifi Router is very economical (saves you cost of building an expensive cable network or buying a Wireless Router), not every computer system supports its functionality. Recent and modern computers from different companies that come pre-installed with Windows 10 are likely to have this problem. The simple reason is that their wireless network card (hardware) does not support **Ad hoc network** (which is actually what My Wifi Router does in the background).

To use My Wifi Router, **first check if your system support Ad hoc network feature**. To do this:

1. Press the window key () on the keyboard
2. Type **cmd**
3. Click on the cmd icon to open the command prompt. It looks something like this:



4. Carefully type the following command: ***netsh wlan show drivers***
5. Press the Enter key on the keyboard

```

Administrator: C:\Windows\system32\cmd.exe
C:\Users\Tishbehsoft>netsh wlan show drivers
Interface name: Wireless Network Connection

Driver : Intel(R) WiFi Link 5100 AGN
Vendor : Intel Corporation
Provider : Microsoft
Date : 3/26/2009
Version : 12.4.1.4
INF file : C:\Windows\INF\netw5v64.inf
Files : 1 total
        C:\Windows\system32\DRIVERS\netw5v64.sys

Type : Native Wi-Fi Driver
Radio types supported : 802.11a 802.11b 802.11g
EIPS 11c 2 mode supported : Yes
Hosted network supported : No
Authentication and cipher supported in infrastructure mode:
    Open      None
    Open      WEP-40bit
    Open      WEP-104bit
    Open      WEP
    Shared   WEP-40bit
    Shared   WEP-104bit
    Shared   WEP
    WPA-Enterprise TKIP
    WPA-Enterprise CCMP
    WPA-Personal  TKIP
    WPA-Personal  CCMP
    WPA2-Enterprise TKIP
    WPA2-Enterprise CCMP
    WPA2-Personal  TKIP
    WPA2-Personal  CCMP
    Open      Vendor defined
Authentication and cipher supported in ad-hoc mode:
    Open      None
    Open      WEP-40bit
    Open      WEP-104bit
    Open      WEP
    Shared   WEP-40bit
    Shared   WEP-104bit
    Shared   WEP
    WPA2-Personal CCMP

C:\Users\Tishbehsoft>

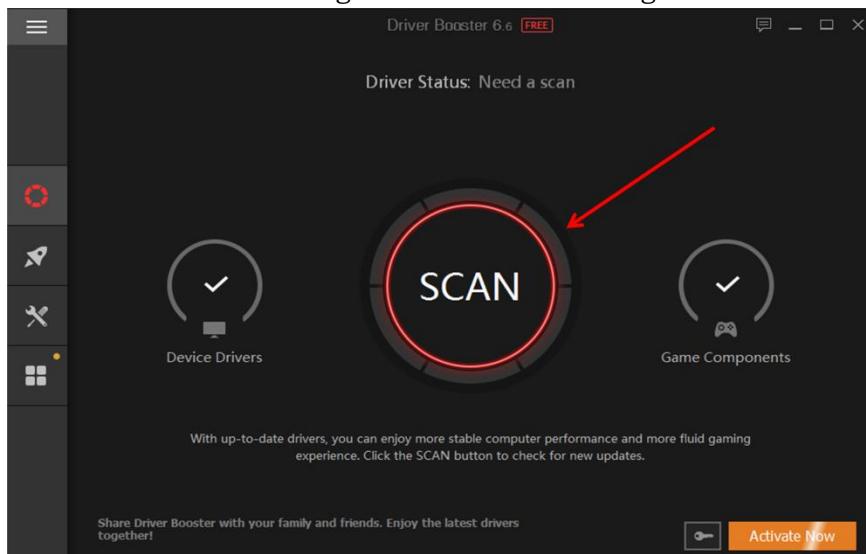
```

6. Look for the part that says '**Hosted network support**'. If it says '**Yes**', then go ahead to install My WiFi Router. If it however says '**No**', then it **could** either be that your computer hardware does not support creating Ad hoc network or that your WiFi driver (software) is out of date. If the latter is the case, then a simple software update will change the Hosted network support from **No** to **Yes**. Please note that to be absolutely sure that your pre-installed windows 10 supports Ad hoc network or not, type the following into the command prompt: ***netsh wlan show networkcapabilities***. Look out for **Soft AP**. If Soft AP says '**supported**', then you are good to go (it means Yes as above). If it however says '**Not Supported**', then sorry, the network hardware does not support computer systems sharing wireless network. It's a hardware issues, not software. Simply explore other sharing options below (method 2).

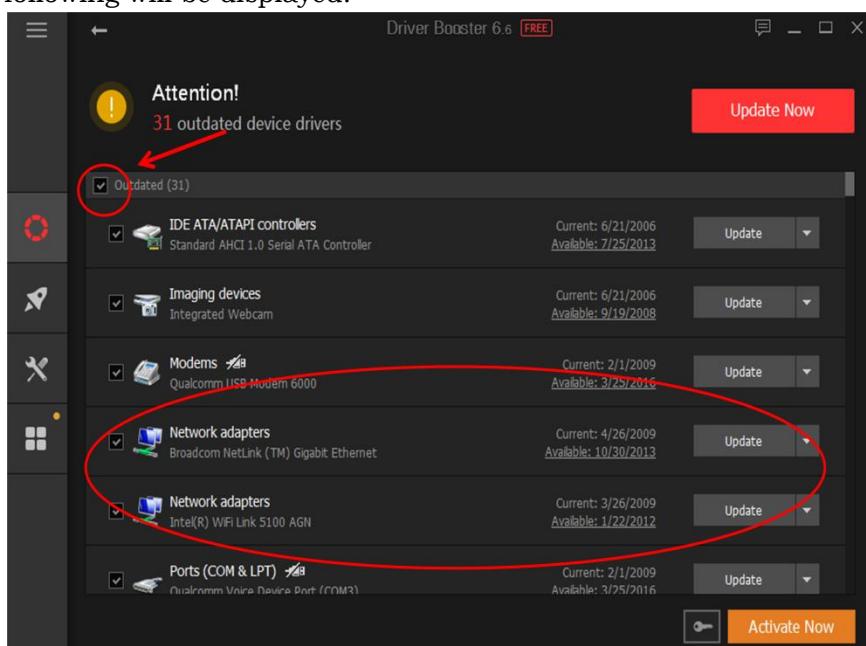
Updating Wireless Network Drivers

If your PC did not come pre-installed with Windows 10, and your Hosted Network support says ‘**No**’, then use driver booster (third party software) to update your network drivers. This software has both commercial version as well as a free version. For just updating drivers, the free version will do – you do not need to purchase the paid version. To update your network drivers:

1. Open your **third-party folder** in the Tishbehsoft installation folder
2. Install **driver booster** software and launch it (you can also download the latest version form the internet – just Google ‘download driver booster’ or <http://www.iobit.com>). After installing and launching driver booster, the user interface shows something similar to the following:

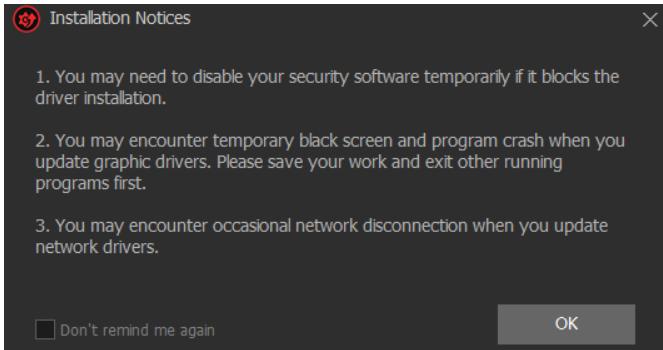


3. Connect to the internet (it requires internet connection) and click the scan circle. Patiently wait for it to complete scan. Something similar will be displayed:

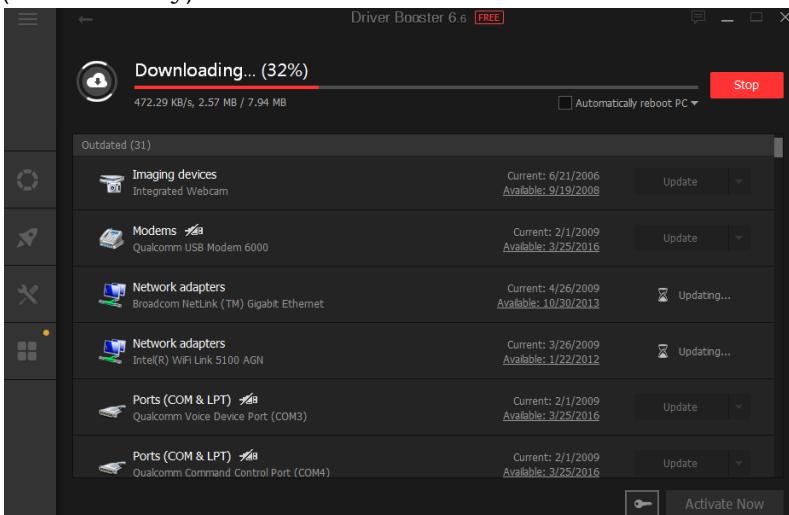


There will quite be a lot of updates, but our interest here is network drivers or adapters.

4. **Uncheck** the checkbox at the top
5. **Select** only network adapters by clicking the check boxes beside them.
6. Click the **Update Now** button at the top



7. Click '**OK**' from the Installation Notices box
8. Patiently wait for the adapters or drivers to download and install (automatically)



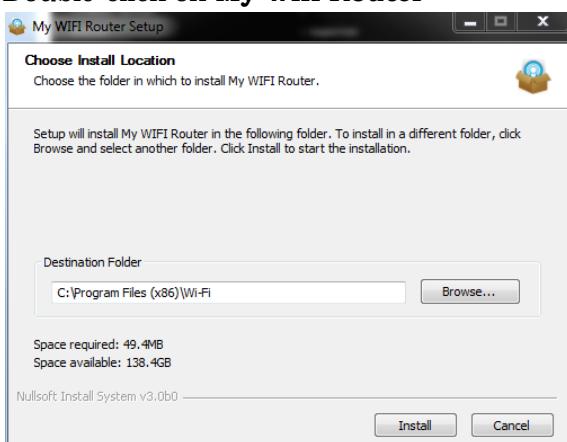
9. After the download and installation, check the hosted network support again by type **netsh wlan show drivers** in the command prompt window and press enter key on the keyboard.

```
Administrator: C:\Windows\system32\cmd.exe
Interface name: Wireless Network Connection
  Driver          : Intel(R) WiFi Link 5100 AGN
  Vendor          : Intel Corporation
  Provider        : Intel
  Date           : 1/22/2012
  Version        : 14.2.0.1
  INF File      : C:\Windows\INF\oem4.inf
  Files          : 4 total
                    C:\Windows\system32\DRIVERS\NETwN64.sys
                    C:\Windows\system32\NETwN64.dll
                    C:\Windows\system32\NETwN64.dll
                    C:\Windows\system32\drivers\wifibus.sys
Type            : Native Wi-Fi Driver
Radio types supported : 802.11a 802.11b 802.11g
HIFs or P-2P mode supported : 
Hosted network supported : Yes ←
Authentication and cipher supported in infrastructure mode:
  Open      None
  Open      WEP-40bit
  Open      WEP-104bit
  Open      WEP
  Shared   WEP-40bit
  Shared   WEP-104bit
  Shared   WEP
  Shared   WEP
  Shared   TKIP
  UPA-Enterprise TKIP
  UPA-Enterprise CCMP
  UPA-Personal TIP
  UPA2-Personal CCMP
  UPA2-Enterprise TKIP
  UPA2-Enterprise CCMP
  UPA2-Personal TIP
  UPA2-Personal CCMP
  Open      Vendor defined
Authentication and cipher supported in ad-hoc mode:
  Open      None
  Open      WEP-40bit
  Open      WEP-104bit
  Open      WEP
  Shared   WEP-40bit
  Shared   WEP-104bit
  Shared   WEP
  Shared   WEP
  Shared   CCMP
```

- If hosted network changes to '**Yes**', congratulations, go ahead and install My Wifi Router. If it however still says '**No**', then consider using the second sharing option described below.

Installing My Wifi Router on the host computer

- Open the **third-party** folder in the installation folder
- Double-click on **My Wifi Router**



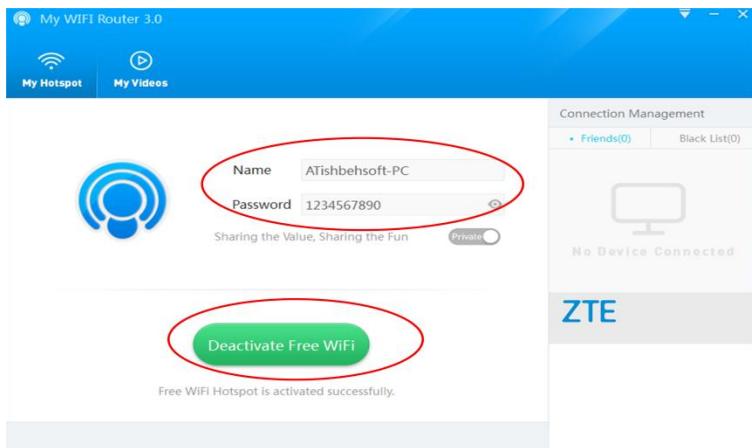
- Click install and wait for installation to be complete



- Click finish to launch My Wifi Router

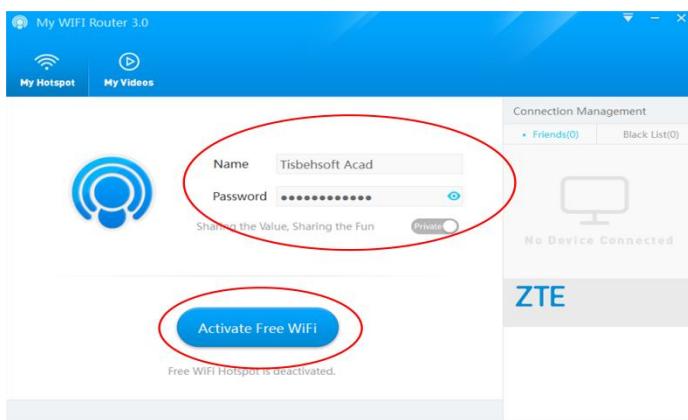
Configuring My Wifi Router

Immediately My Wifi launches, it automatically assigns a default Wifi name (SSID) and password. It looks something like this:



You need to reconfigure for security reasons. To do this

1. Click the **deactivate Free Wifi** button below to allow you edit the network **Name** and **Password**
2. Type in new **Name** and **Password** (the Name is what other laptops, desktops or smart phones will see on when they turn on their Wifi).
3. Click the eye icon beside the Password to hide your password with series of dots



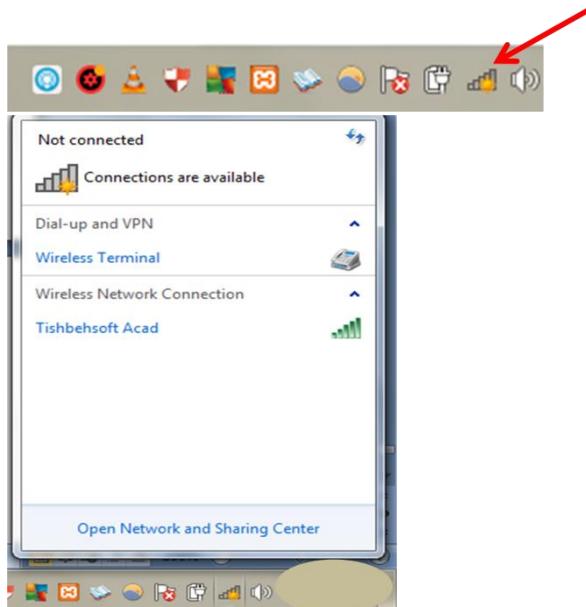
4. Click the **Activate Free Wifi** button to re-launch My Wifi Router.

Sharing Connections Via My Wifi Router

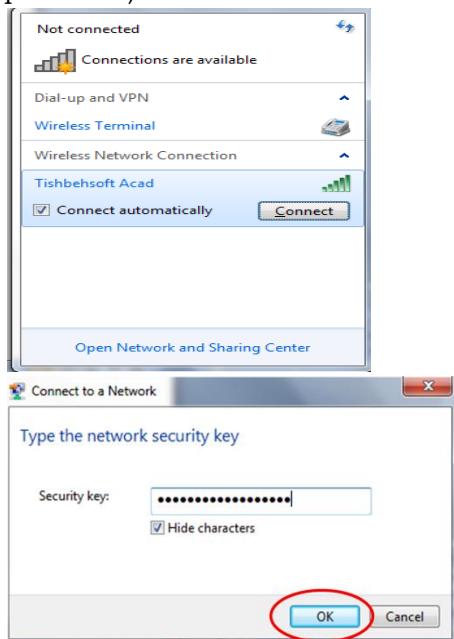
Once you have successfully installed, configured and launched My Wifi Router on the host computer, you can now share Tishbehsoft Academy+ so others can connect and use it. To do this:

1. Ensure that your xampp server is running and that Apache and MySQL services have been started (*refer to XAMPP installation above*).
2. Ensure that My Wifi Router is started
3. Turn on the Wifi on laptops, desktops or smart phones

4. Locate the network name (in this case – Tishbehsoft Acad) and click on it.
On **laptop** or **desktop** with wireless capability, click the wireless icon in the notification area



5. Select the Network Name (SSID) and supply the password (My Wifi password) to connect.



6. Connect by opening your browser and type, in the address bar, the IP address or the name of the host computer (see above on how to check the IP address or network name of the host computer). For My Wifi Router, the IP address is usually **192.168.23.1**
7. Press the enter key or button on the smart phone

It should be noted that, though My Wifi Router is economical, its **network range is usually short** (depending on your wireless hardware range – though). The

wireless network range is usually 20 meters (max). With thick buildings or other structure, it may drop to about 10 meters or less.

In addition, My Wifi Router allows/supports only about 10 connections (laptops, desktops, smart phones) simultaneously.

Method 2: Wifi/Mifi Device

A **network router** that acts as a mobile WiFi hotspot for either mobile or fixed computer devices is called Wifi/Mifi or sometimes Access Point (AP). By being a wireless router, it can be used to **create**, **share** and **manage** wireless connections.

There are quite a number of Mifi devices out there, especially the ones provided by telecommunications service providers such as MTN, Airtel, Glo, etc and they are quite inexpensive and ideal for creating connections where Ad hoc network is not supported (*see Ad hoc network support above*).

My special preference and recommendation is the **ZTE MF920VS**. It has salient features that most Mifi devices do not have. It has coloured screen, supports 4G cellular network, has good battery that lasts, you can use any telecom's SIM (Airtel, MTN, Glo, etc – if you want to browse with it) and most importantly, **supports up to 32 users or connections simultaneously**. Though it has those unique features, our major concern here is that it supports up to 32 connections simultaneously.



It should however be noted that, to create, connect and manage network, **you do not need internet or even any SIM card**. We just need the router function **ONLY**; that's all.

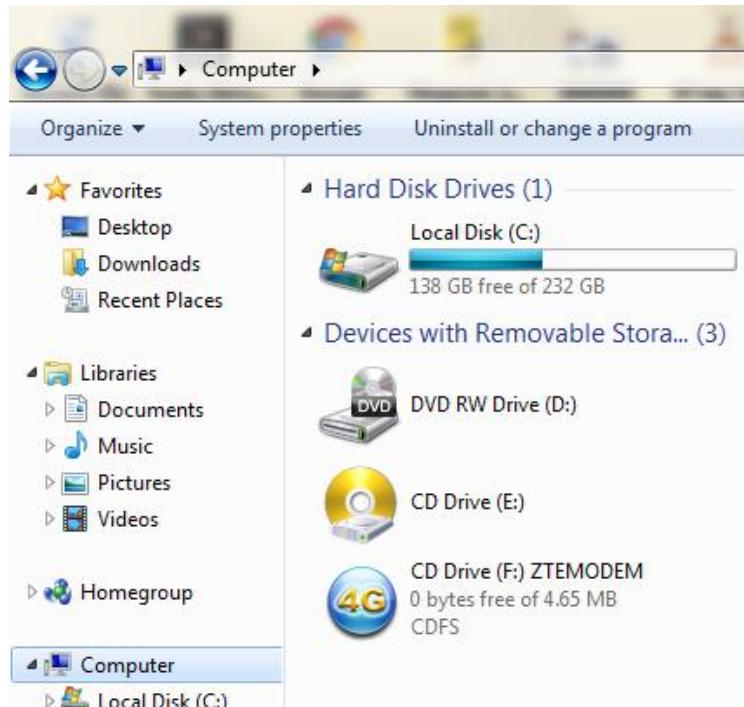
You can use any Mifi device, MF920vs is simply a recommendation. However, for this installation guide, this model's interface will be used to describe general functions.

To purchase this product, simply check shops in the local market where computer accessories are sold or order it online from **Konga** or **Jumia**.

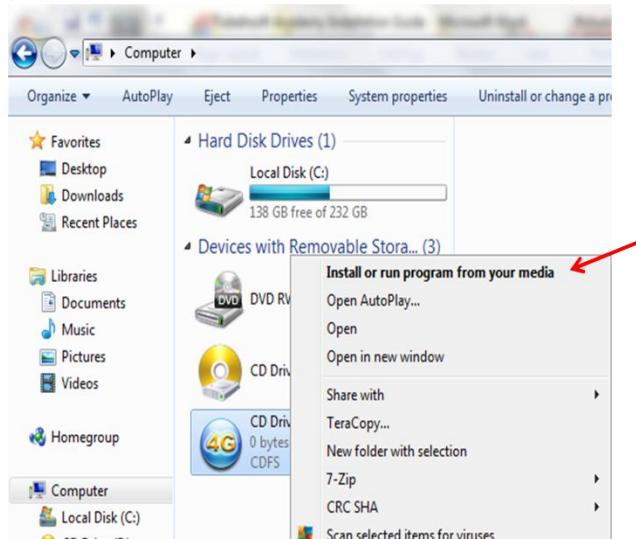
Connecting and Configuring Mifi Devices

There are different ways to connect and configure Mifi devices. Some come with default Network name (SSID) and password. But generally,

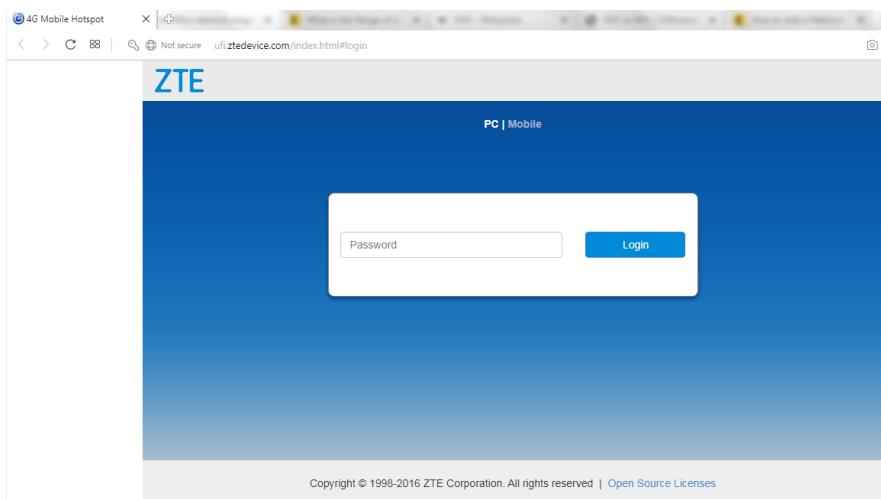
1. Connect the Mifi device to the host computer using a USB cable
2. Open your file explorer (+ E) or click the yellow icon on the task bar.



3. From the list of removable storage devices, locate your Mifi software (driver) and install it by right-clicking on it (then select install).



4. A short cut will be created on the desktop.
5. Locate the short cut and double-click it (the router interface opens on your default browser). It looks something similar to this:



6. Key in the password (by default, the password is '**admin**') and hit the enter key on the keyboard.

Change Administrator (Admin) password

Any person with network name (SSID) and password (which you shall create) can use the admin password to alter or make changes to the router. To avoid this, quickly change your **default admin password**. To do this:

1. Form the router interface you just logged in, click the **Modify Login Password** at the top-right-hand side of the interface.



2. Key in the current (old) password (which is '**admin**') as well as the new password. Repeat the new password
3. Click the Apply button below to effect changes.

Setting up Network Name and Password

Computers that will connect to access and use Tishbehsoft Academy+ will require a network name (SSID) and password, including the host computer. To create (or change) these:

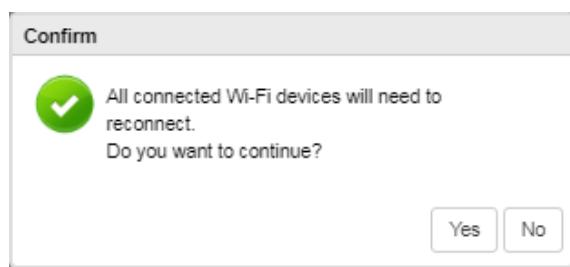
- From the Mifi device interface, click on the settings button, under Wifi



- Key in the network name (e.g. Tishbehsoft), the password as well as maximum number of users that can connect simultaneously.

Main SSID	Guest SSID	WPS	Advanced Settings
Network Name(SSID) * <input type="text" value="Tishbehsoft"/> <input checked="" type="checkbox"/> Broadcast SSID			
Security Mode <input type="text" value="WPA2(AES)-PSK"/> Password * <input type="password" value="*****"/> <input type="checkbox"/> Display Password			<input checked="" type="checkbox"/> Display QR Code
Max Station Number <input type="text" value="32"/>			<input type="button" value="Apply"/>

- Click the Apply button



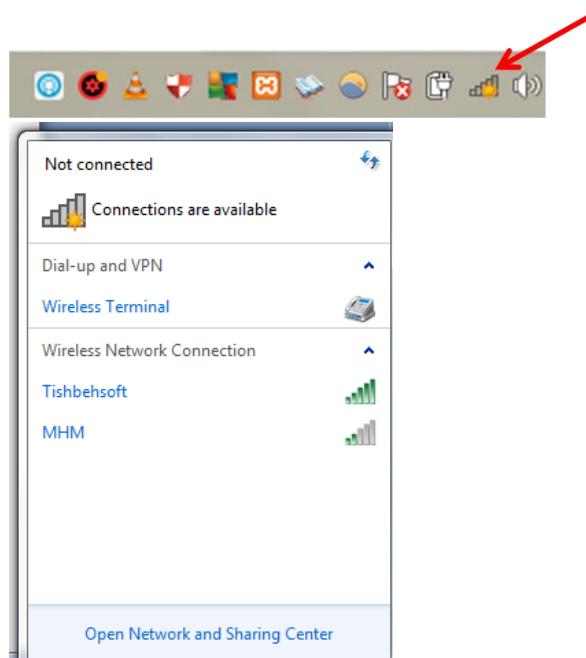
4. Confirm the process by clicking 'Yes'.

Sharing Connections Via Mifi Device

Once you have successfully installed, configured and launched a Mifi device, you can now share Tishbehsoft Academy+ so others can connect and use it. To do this:

1. Ensure that your Xampp server is running and that Apache and MySQL services have been started (*refer to XAMPP installation above*).
2. Ensure that Mifi device is powered on
3. Turn on the Wifi on laptops, desktops or smart phones
4. Locate the network name (in this case – Tishbehsoft) and click on it.

On **laptop** or **desktop** with wireless capability, click the wireless icon in the notification area



5. Select the Network Name (SSID) and supply the password (that you just created from router wifi settings) to connect.



6. Connect by opening your browser and type, in the address bar, the IP address or the name of the host computer (*see above on how to check the IP address or network name of the host computer*).
7. Click the OK button or press the enter key on the keyboard

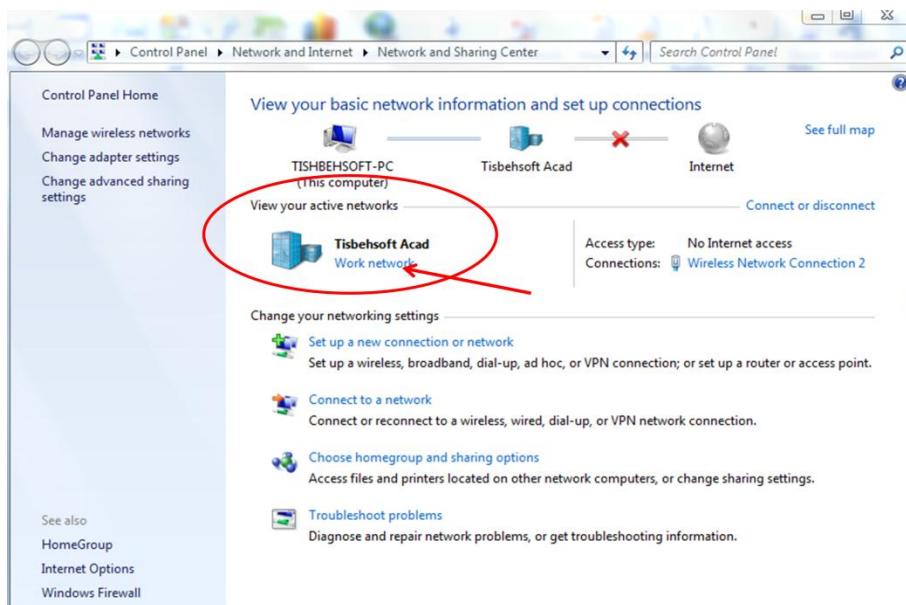
Please note that whether you are using My Wifi Router or a Mifi device to share network, the Wifi, of especially the host computer, must be on. Some laptops have the Wifi power On/Off as a key on the keyboard, other have it as a button by the sides, or close to the screen.

Also note that some older desktops do not have wireless facility. In this case, a Wireless network card can be bought and installed or a simple USB Wireless Dongle can be bought and attached to the desktop without Wifi facility (TP link USB Wifi Adapter is recommended).

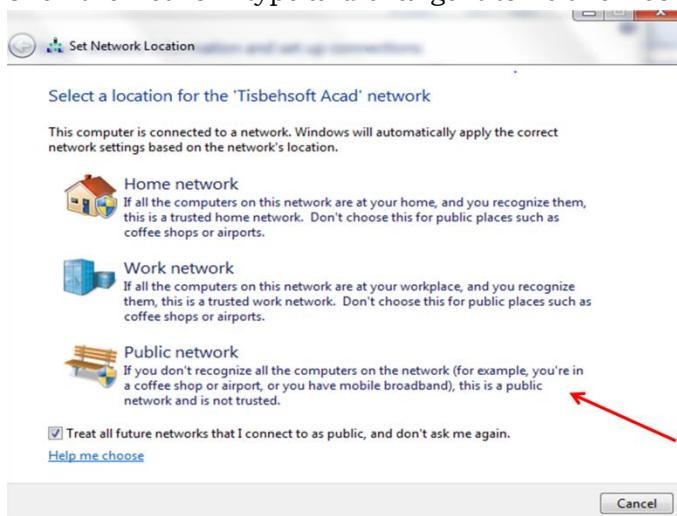
Also note that whether you are using My Wifi Router or Mifi, DHCP server must be enabled or set to dynamic (**NOT static**). DHCP server automatically assigns and manages computer devices' IP addresses automatically. If you are using MF920VS, select **Advanced settings**, click the **Router tab**, and under **DHCP server**, set it to enable (by default, DHCP servers are enabled or set to dynamic on all devices with wireless capability).

Lastly, you must set your network type to public for all of these described functions to work. Network type limits or controls connections to network. To check and set your network type:

1. Press the window key (**⊞**) and type '**Network**'
2. From the list of options, select **Network and Sharing Center**



3. Under **view your active networks**, the network type will be displayed – set to **Home Network, Work Network or Public Network**
4. Click the Network type and change it to **Public Network**



5. Click **Close** after selecting the public Network

Please note that network type must be set to Public Network for other devices to gain access to Tishbehsoft Academy+.

PRINTING

Using Tishbehsoft Academy+ comes with a lot of printing – broadsheets, plain CA and Exam sheets, CA and Exam records, etc. Traditionally, a printer is connected to one computer and then, every printing job will be done from that computer – typically by copying files to it. In some cases, the printer is moved from one computer to another. This is quite uncomfortable, monotonous and cumbersome. Thanks to network printer sharing feature in almost all computer devices, including smart phones.

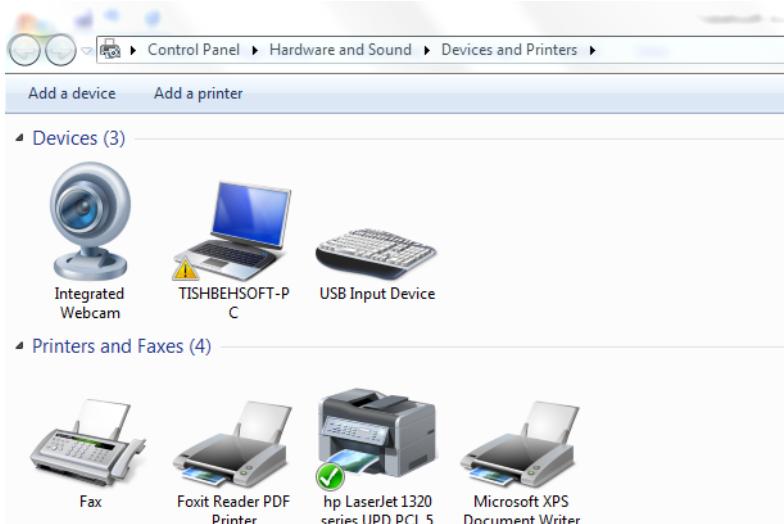
There are basically two categories of printers in terms of network – printers with built-in network capability, sometimes called network printers. Some of these network printers are cabled (with Ethernet port), others are wireless (Wifi, Bluetooth) or even remote (cloud printing). The second category is the traditional printer (whether laserjet or deskjet). This set of printers are simply connected to one computer and do not come with network capabilities on their own. The latter shall be the subject of this section of the Installation Guide.

Traditional printers can somehow be share **through the host computer**. Since we have already created and connected different computer devices, it is also wise to share the printer from the host computer.

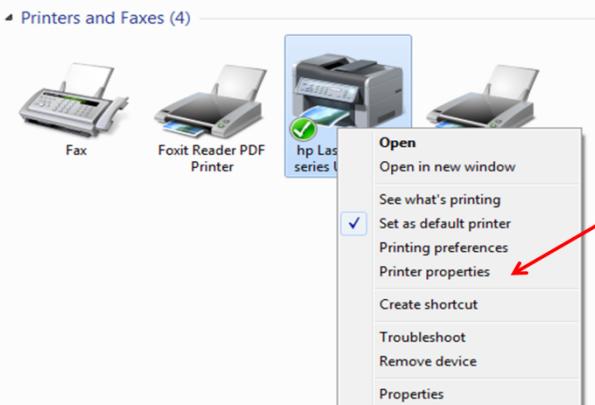
Sharing a Printer on the Network

To share a printer on the network:

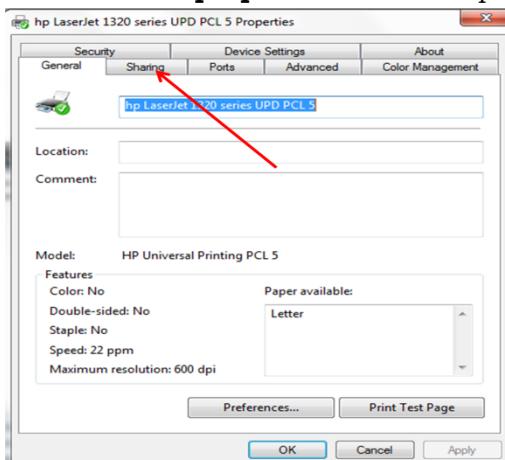
1. Connect the printer to the host computer and power it on and install the printer (if it is not already installed).
2. Press the window key (**⊞**) on the keyboard and type '**devices and printers**'
3. Click **devices and printers** from the list of items. Something similar to the following opens:



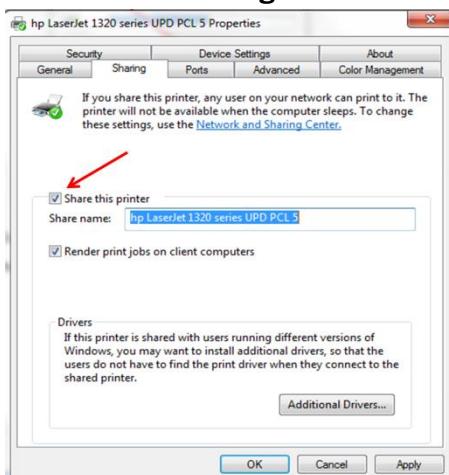
4. From the list of devices and printers, **right-click** on the printer you want to share (in this case Laserjet 1320 series).



5. Select **Printer properties** form the option



6. Click on the **Sharing** tab



7. Check the **Share this printer** checkbox. You may, optionally, change the printer's **share name**.
8. Click **apply** and then **Ok**.

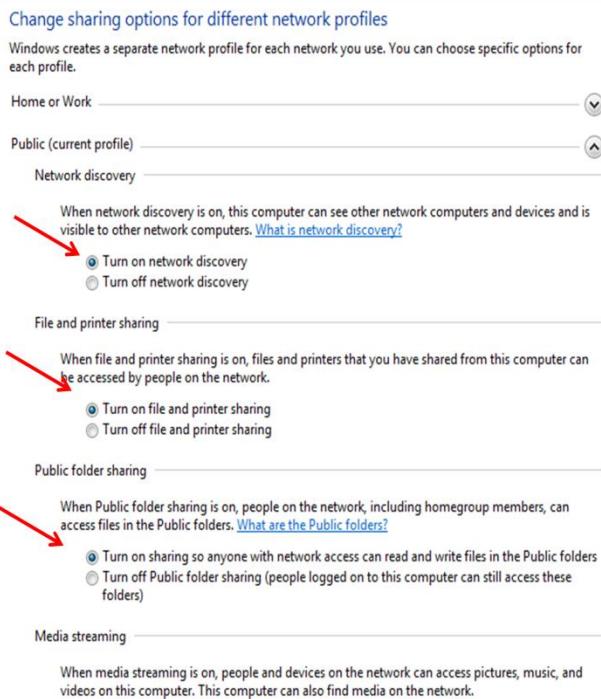
Making the shared printer visible

For others on the same network to see, install and print from this single shared printer, it must be made visible – in other words, printer sharing feature must be enabled. To do this:

1. Press the window key ()on the keyboard and type ‘**network**’
2. From the list of options, select ‘**Network and sharing Center**’



3. At the left hand side of the panel, click ‘**Change advanced sharing settings**’



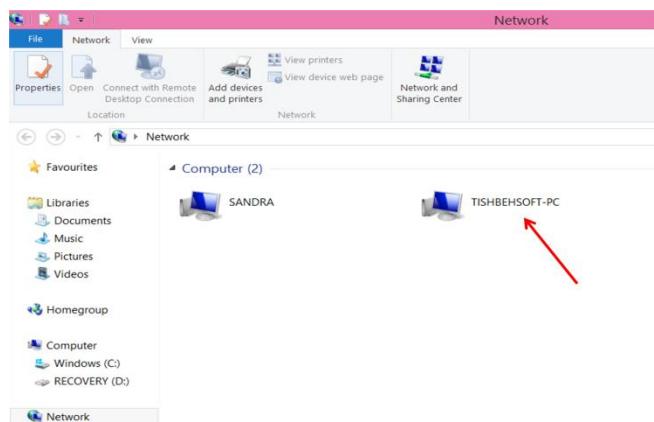
4. Under public (current profile) click the **Turn on network discovery**, **Turn on file and printer sharing** (very important). You may turn on or off some other features on public folder.

Printing from Other PCs on the network

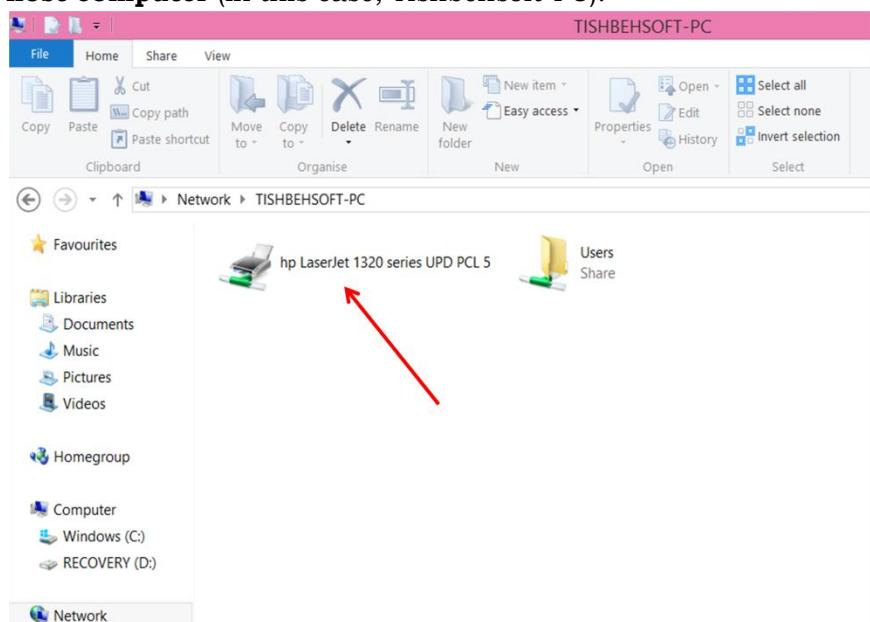
To print from other computers (laptops and desktops), these computers must be connected to the **same network** as the host computer. Also, these computers must also have their **network discovery** (from the Network and Sharing Center) set to **On** (see making shared printer visible above).

You also need to access the host computer and **install** the shared printer driver. To do this:

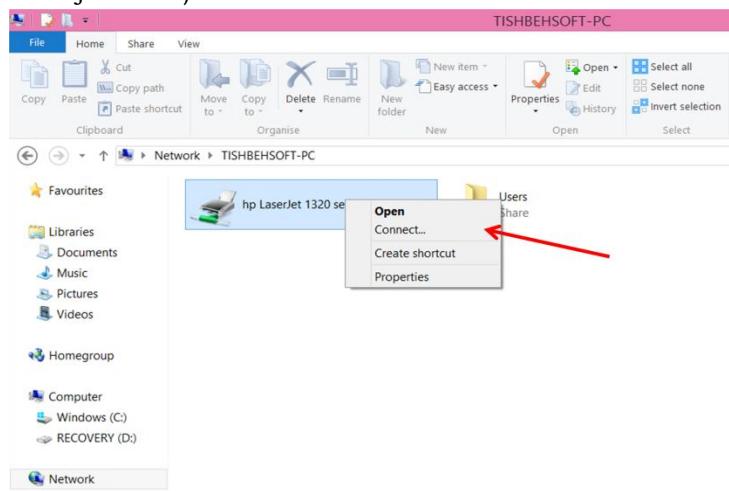
1. Press the window key ()on the keyboard and type ‘**network**’.
2. Select **network** (NOT **Network and Sharing Center**) from the list



- From the list of computers on the same network, **click and open the host computer** (in this case, Tishbehsoft-PC).

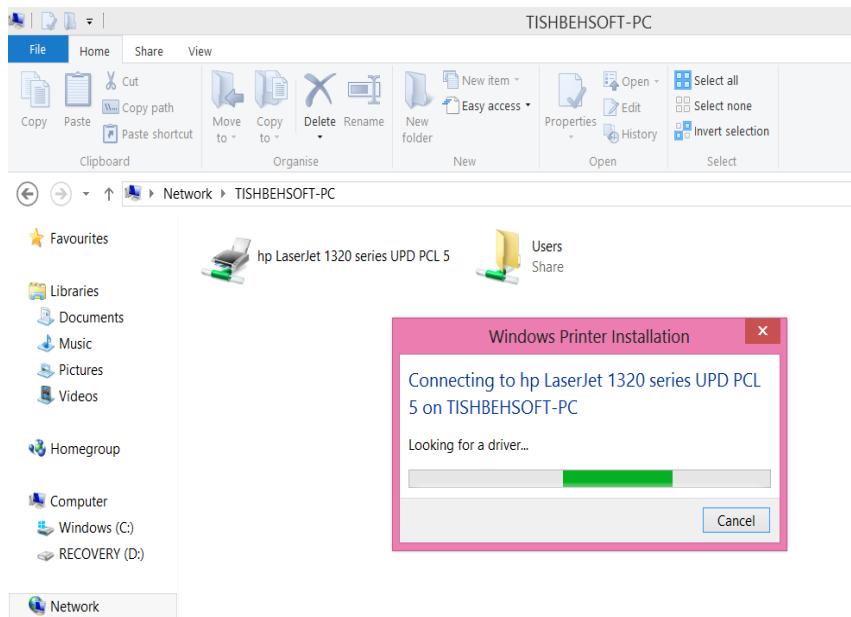


- From the list items there, as many printers that have been shared by the host computer will be listed, **right-click** a printer (in this case – HP Laserjet 1320)

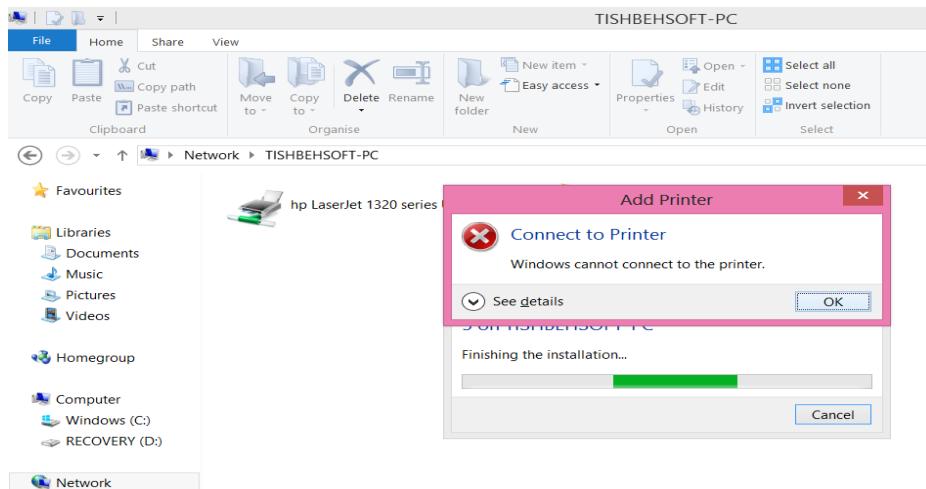


5. Click **Connect**

If you already have the same printer driver previously installed, the printer will simply be added to your list of printers; else, it will install the printer driver before adding it to the list of printers.

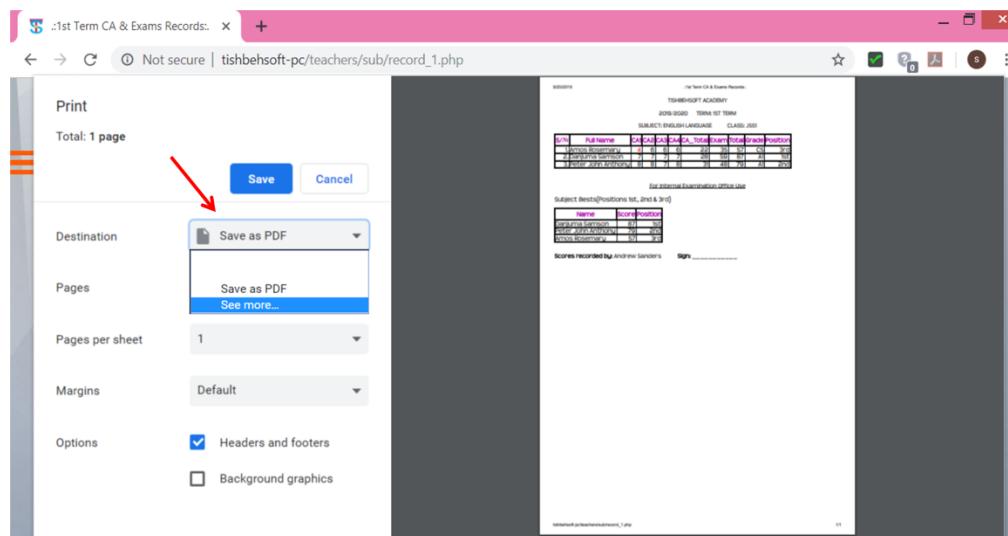


Please note that **the shared printer must be connected** to the host computer as well as powered on. If the shared printer is not connected or powered on, the following will be displayed:



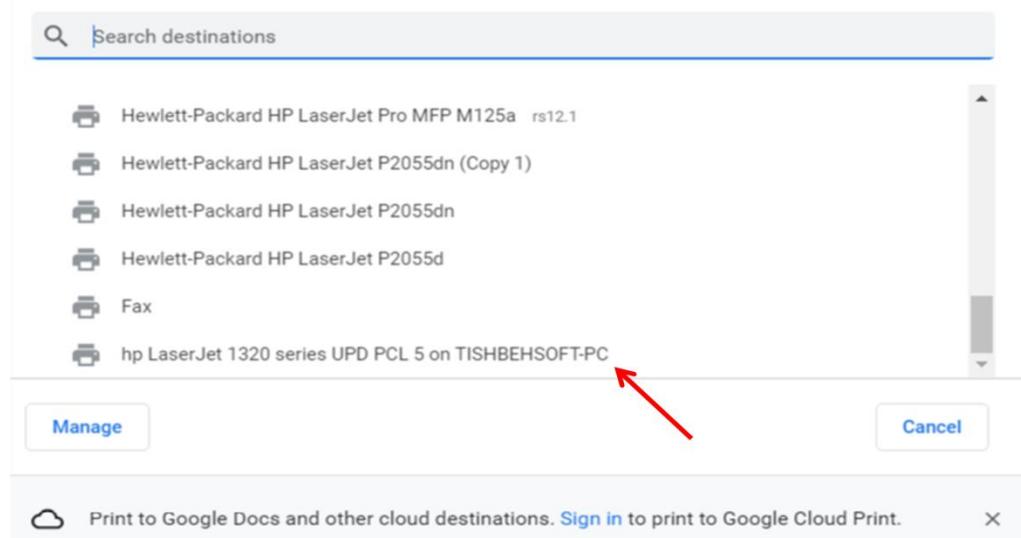
To test your work, open any page on Tishbehsoft Academy+ you would want to print (assuming you are using Chrome browser).

1. Click on a **print** button



- From the print dialog box, beside **destination** (at the left hand side of the dialog box), click and select **more**

Select a destination



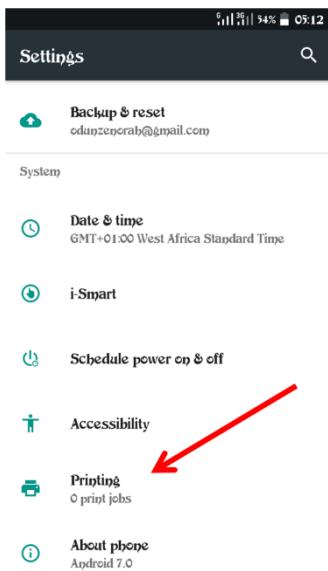
- From the list of printers, select the name of the just added shared printer. The printer name format for shared printers is ‘the **printer name on the host computer name**’ (e.g. **hp Laserjet 1320 on TISHBEHOSFT-PC**).

Printing from smart phones (Android) on the network

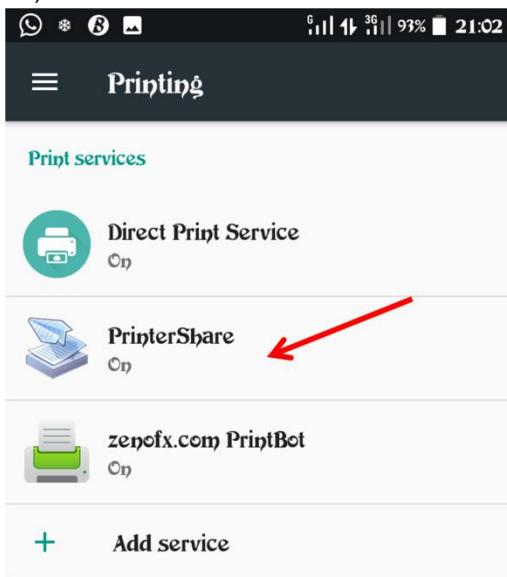
Printing from a smart phone is different ball game. It is simply straight forward. You simply need a third-party software called ‘**PrinterShare**’, **Google Chrome** browser, **Cloud print** services enabled and lastly, be connected to the same network as the **host computer**.

Preliminary Setup

1. Download and install **PrinterShare** from **Google Play Store**
2. Head to **settings** on the Android phone, scroll down until you find **printing**. Select it.



3. Select **PrinterShare** and enable it (turn it on if it has already not been turned on)



4. By default, **Cloud print** should be added as a service automatically when you install Chrome for mobile. In case you have issues later with printing web pages to pdf files, you may need to download it from **Google Play Store**.
5. Download and Install **Chrome** – smart phone version. (This is highly recommended)
6. Connect to the host computer with your Wifi

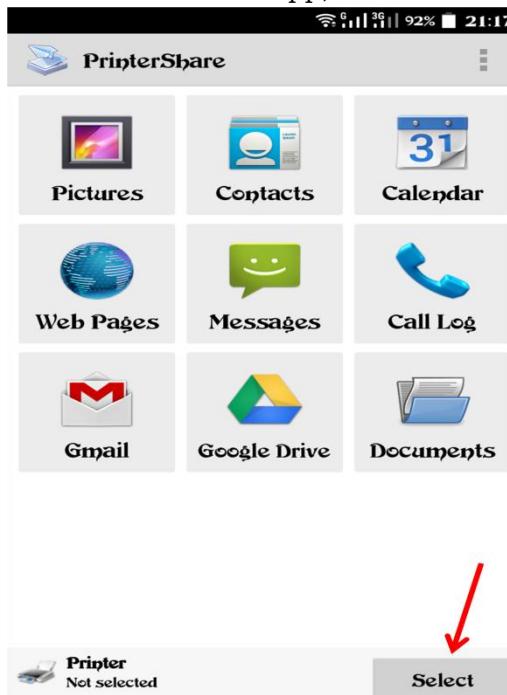
Installing Shared Printer on Printershare

You need to connect to the shared printer on Printershare before you can print from your mobile phone. To do this:

1. Launch **Printershare**



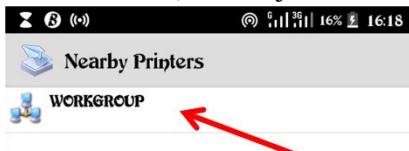
2. At the bottom of the app, click the **Select** button



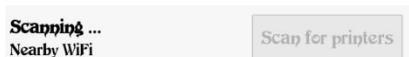
3. From the **Select Printer** Option, click **Nearby WiFi**



4. Select **WORKGROUP**. You need to be connected via WiFi to see this. If you don't see this, check your WiFi connection.



5. Select the name of the host computer's name (in this case, Tishbehsoft-pc)

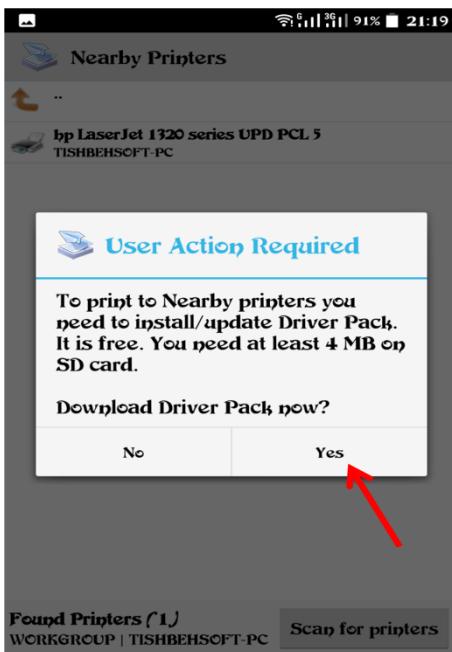




6. Select the host computer's name to see the shared printer or printers

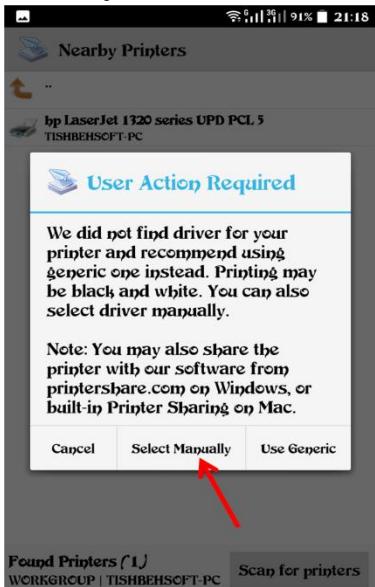


7. Click on the **printer** (in this case HP Laserjet 1320 series) to install the smart phone (Android) driver version. You need internet to do this. Simply pull your top drawer menu and **turn off your Wifi** to allow you use internet (you can turn the Wifi on later).

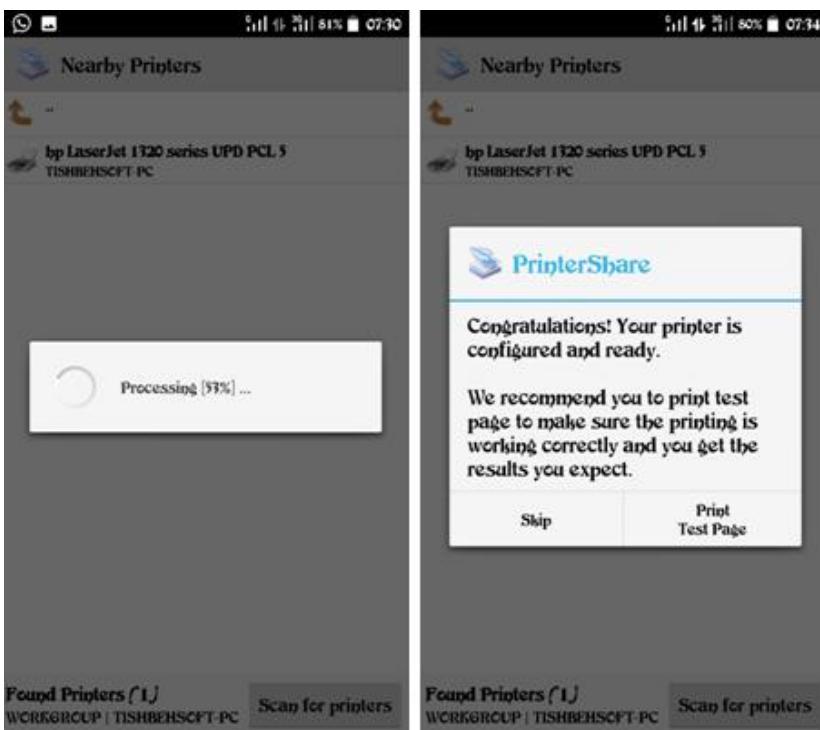


Click Yes to download

8. If your **Printershare** finds the printer driver, it installs it automatically; else it notifies your to install it manually.



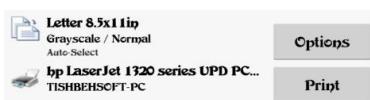
9. From the list of **printer manufacturers**, choose your manufacturer (in this case, HP)
10. From your manufacturer's list of printers, choose the printer category (in this case Laserjet)
11. Select the particular printer model (in this case HP Laserjet 1320 series) to begin installation
12. Wait patiently as installation progresses. Once it is done you will be notified.



13. Click **Print Test Page** to print out a test page.

Printing Tishbehsoft Academy+ files

Printershare can print almost any kind of file, including web pages. You can login as principal, admission officer, examination officer, form teacher or subject teacher to print certain files. The problem, however, is that printershare does not format these web files before printing them; they can appear very awful. A sample web file (subject teacher's CA and Exam score) is shown below:



To avoid this and have a clean print, export the file as PDF. To do this:

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1. Login and get to the page you want to print (in this case CA and Exams scores).

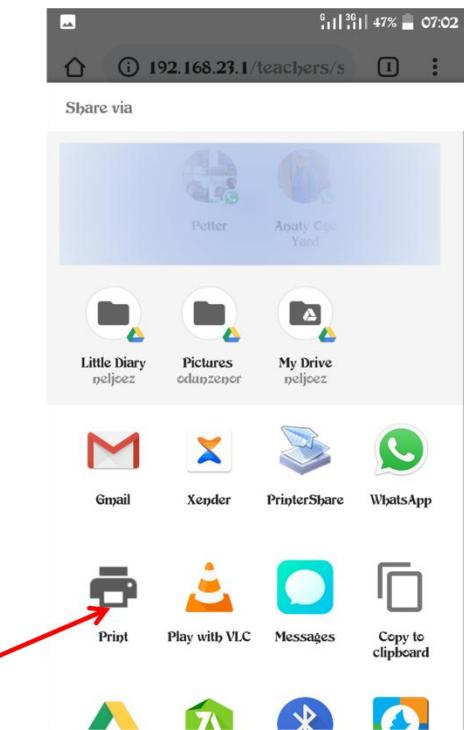
The screenshot shows a web page titled "1st Term CA & Exam Record". The URL in the address bar is 192.168.23.1/teachers/s. At the top right, there is a browser menu icon consisting of three dots. A red circle highlights this icon. Below the menu, the page displays student records for English Language in JSS1. At the bottom right of the page content, there is a yellow "Print" button with a printer icon, which is also highlighted by a red arrow.

2. Click the **print button** from the page. (It should be noted here that so far, **ONLY CHROME BROWSER** supports this feature – use Chrome browser).

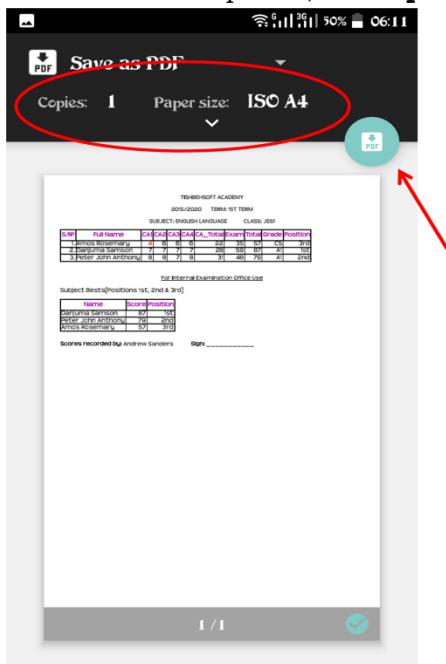
The screenshot shows the context menu of the Chrome browser. The "Share..." option is highlighted with a red arrow. Other options visible in the menu include "New tab", "New incognito tab", "Bookmarks", "Recent tabs", "History", "Downloads", and "Find in page".

3. Click the browser menu and select Share from the options

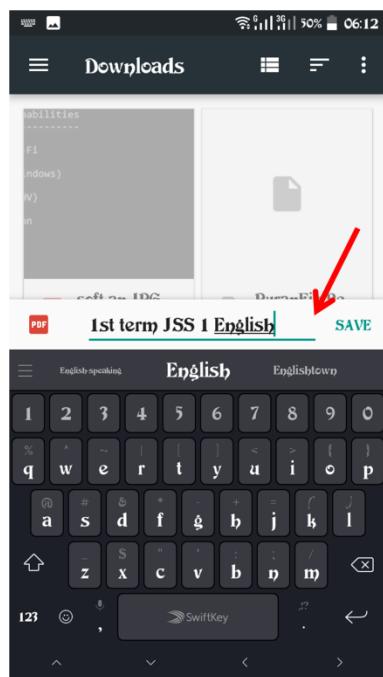
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4. From the share options, select **print** (this only works on Chrome browser)



5. From the save as PDF box, set you page (e.g page size to A4, etc) and click the Green button to save as PDF



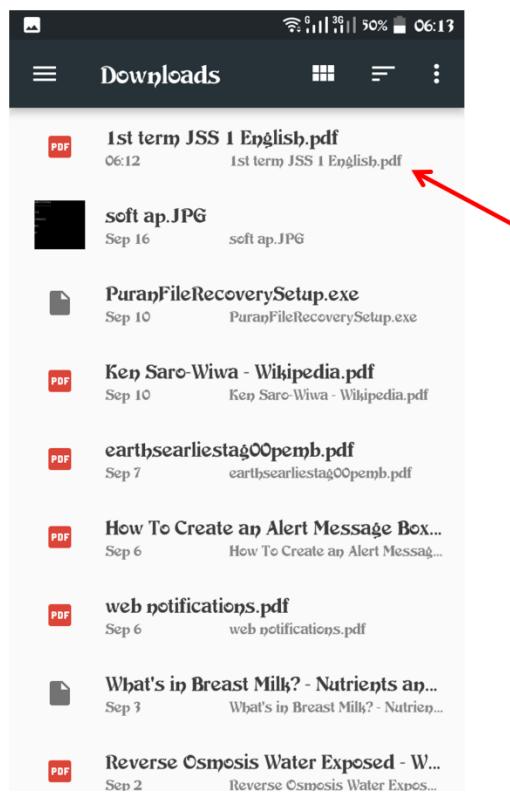
6. Type in a **file name** for the PDF file you are about to create
7. Click **save**

Printing PDF files from Printershare

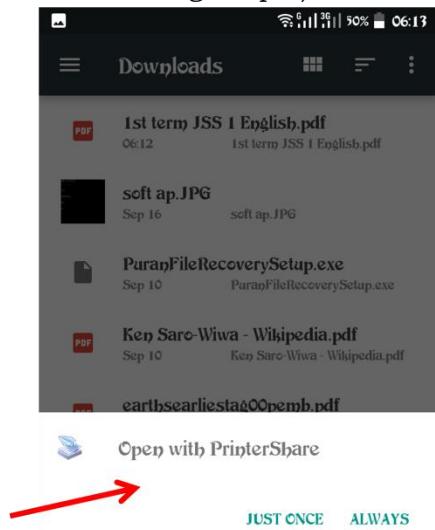
Once files been converted to PDF, it is easy to print from Printershare. PDF files such as the above are saved by default in the **Download folder** of your phone. To print your PDF file you just created:



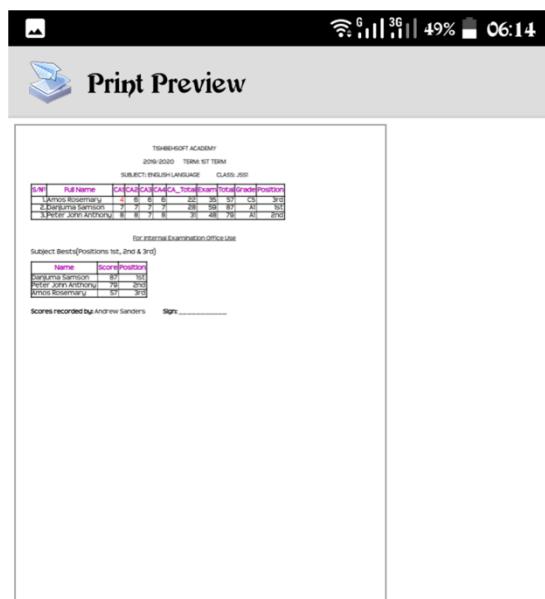
1. Open your **download** folder on your phone



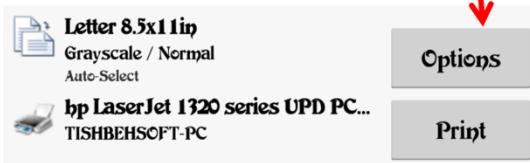
- From the list of files, select the file you want to print (in this case, 1st term JSS 1 English.pdf)



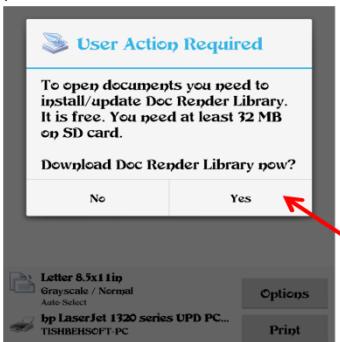
- From the list of programs to open PDF with, select **Open with Printershare**. Alternatively, you can directly open printershare, select documents and choose files from the list of document files.



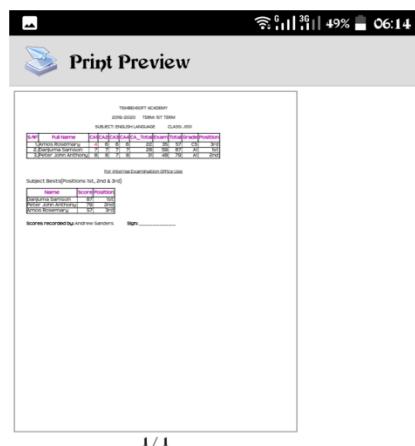
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Printershare may prompt you to download what it needs to render PDF (or other document format) for print previewing.



Click **Yes**. (**turn off your Wifi** so you can use your mobile data to download the library). After the download, reconnect your WiFi.



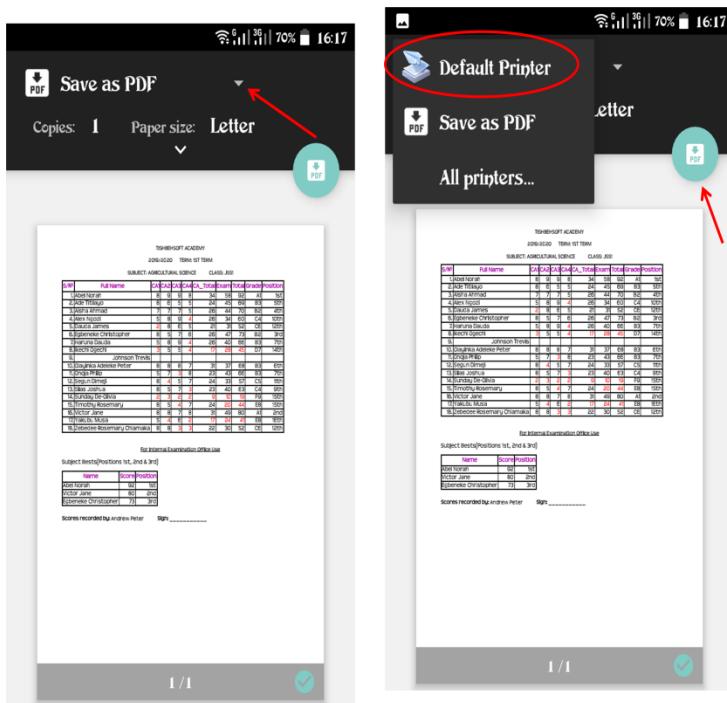
4. You may click the options button to set paper size, print rage, etc.
5. Click the **Print button** to send your print command to the printer.

Printing Straight to Printershare

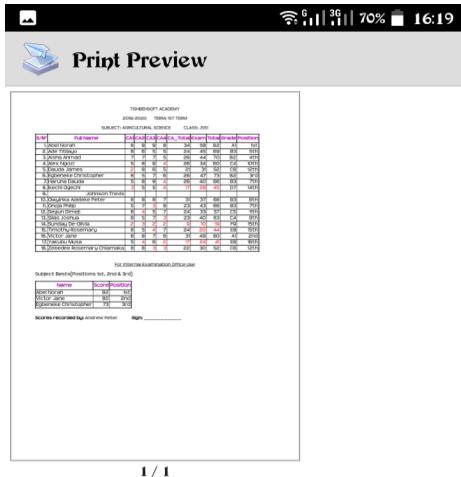
If you however do not want to create PDF files and store them on your phone's storage, you can however print straight to Printershare.

To print directly to Printershare

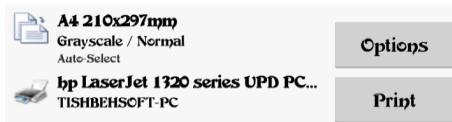
1. On the page you want to print, click the **print** button



2. From the **mobile printer dialog box**, click the **triangle icon** pointing downwards (beside **save as PDF**) to reveal options (as shown above).
3. From the list of printers displayed, select **Printershare** (as shown by its icon)
4. Click the (green) **print** button



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5. From the options button set **page** size, etc
6. Click **print**

EXPORTING FILES

There may be times you may be unable to print files from Tishbeshsoft Academy+ due to faulty printer or you may want your files in colour or sometimes on larger paper formats that your printer does not support (e.g. Boardsheets printed on A3 or A2 paper sizes). All you need is to simply convert the web pages to PDF files, copy them to a removable storage device (e.g. Flash drive) and take it for printing.

Most PC web browsers support converting web files to PDF. All you simply need to do is to print these files to PDF formats.

For smart or mobile phones, this process has already been described above (**see printing Tishbehsoft Academy files above**). If you are using PC (laptop, desktop) however, simply do the following:

1. Open the page you want to print
2. Click a print button (or simply press **ctrl + P** on the keyboard)
3. From the print dialog box, near destination (assuming you are using chrome) select the option that says '**Save as PDF**'
4. Choose where to save the file or files
5. Give the file a name
6. Click save
7. Connect your removable storage device (e.g. flash)
8. Right-click the file and from the option, select send to
9. From the list of destinations, select your removable storage device
10. Safely remove the storage device and take for printing.