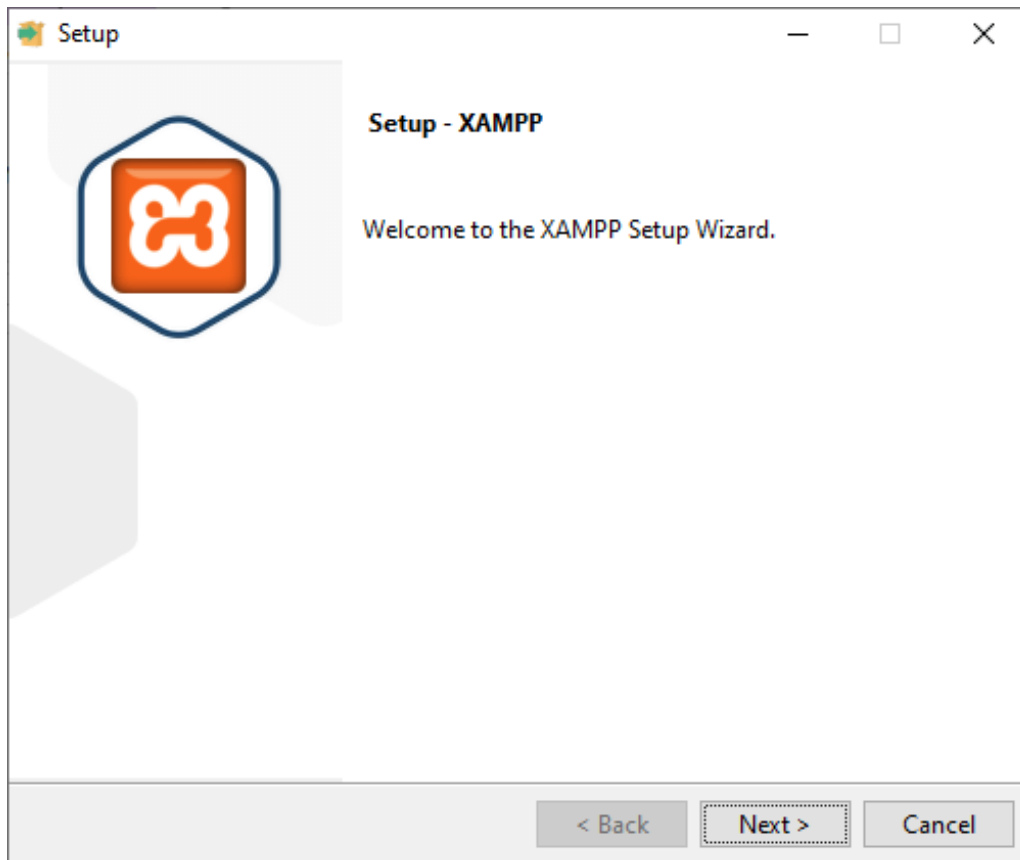
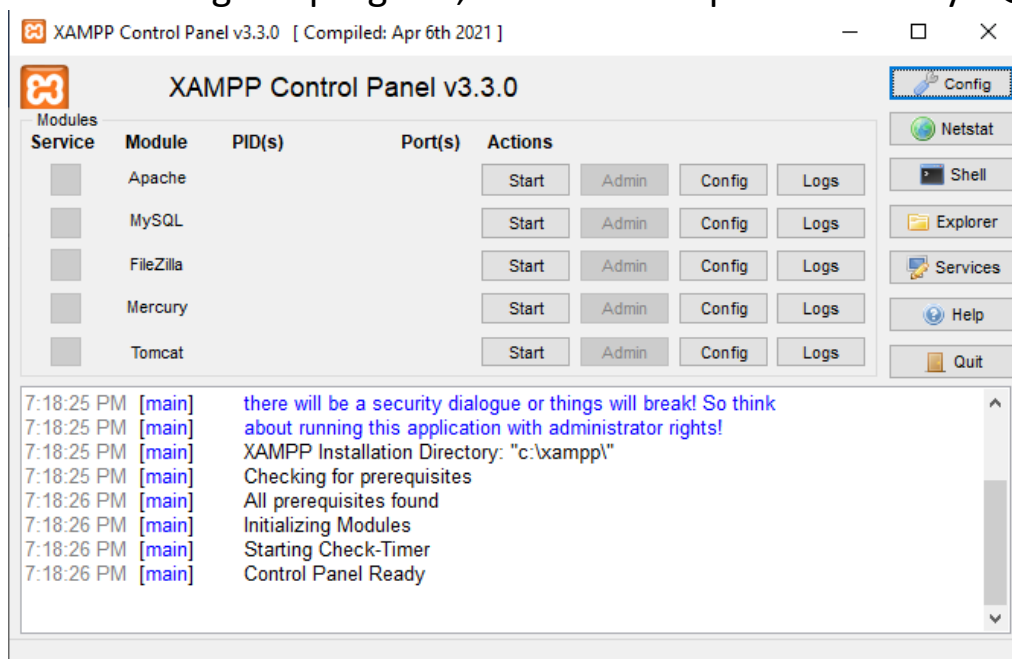


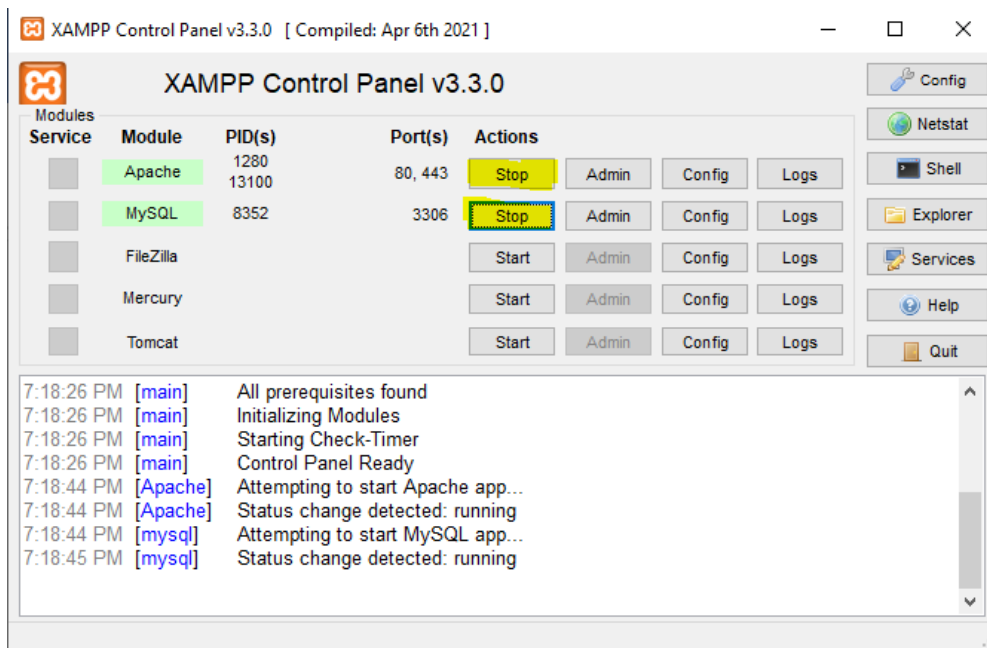
Getting Started

1. We install XAMPP

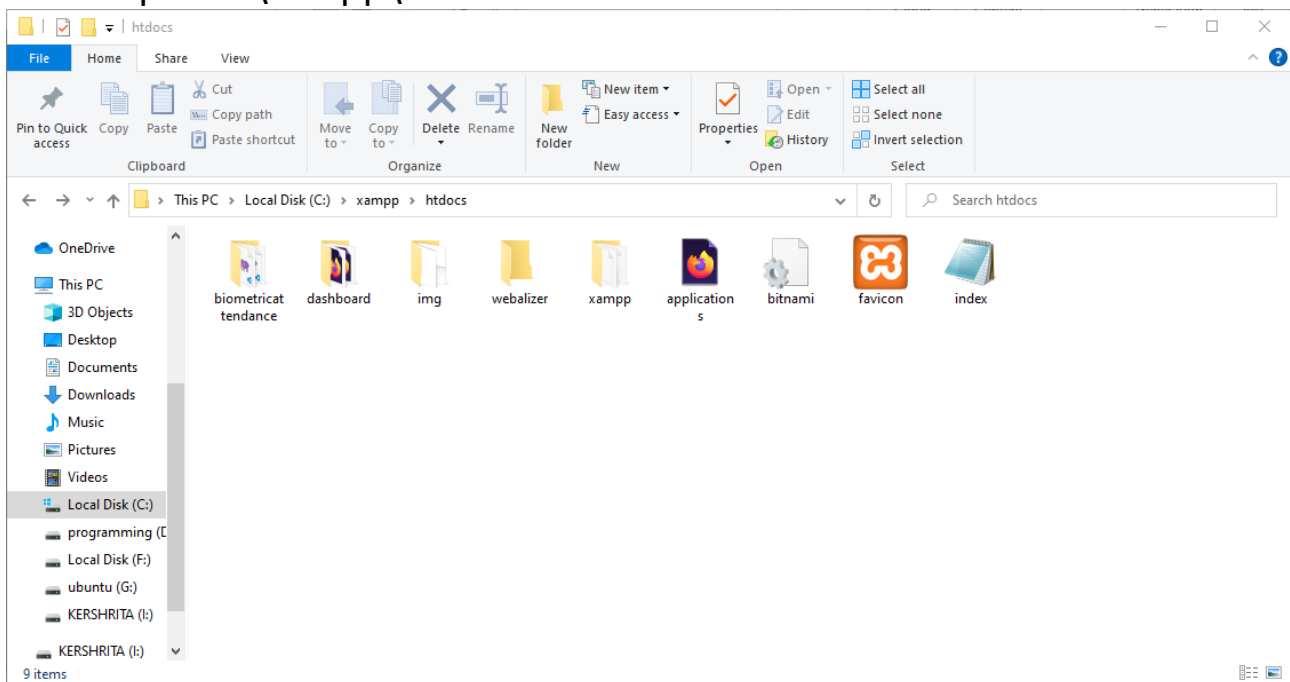


2. After installing the program, we activate Apache and MySQL Server

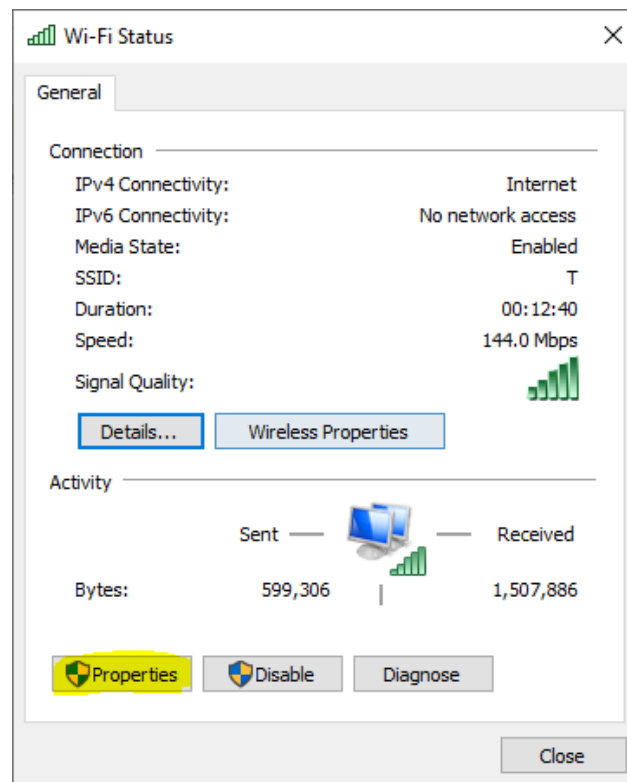




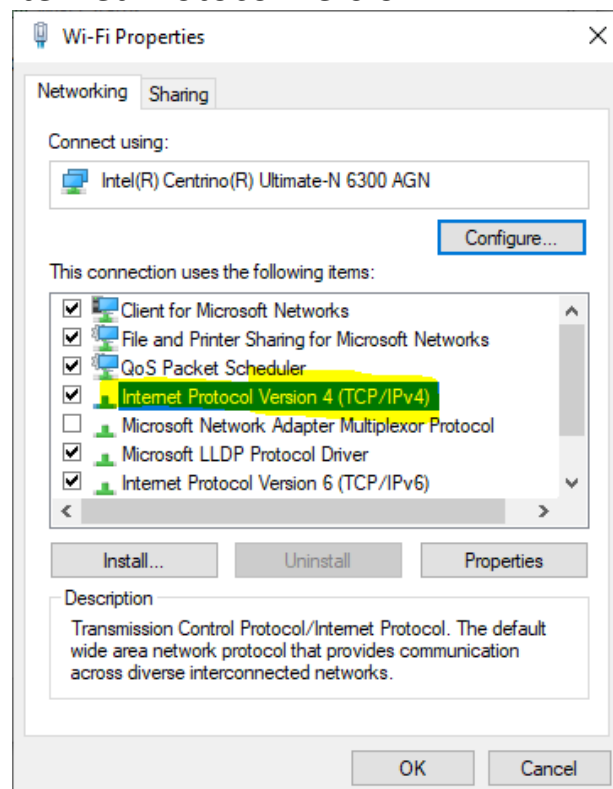
3. " There is a file called biometricattendance and we put it in this "
" pathC:\xampp\htdocs "



4. We open the Wi-Fi settings



5. " We select Internet Protocol Version 4 "



6. We activate Static IP

The screenshot shows the 'Internet Protocol Version 4 (TCP/IPv4) Properties' dialog box with the 'Alternate Configuration' tab selected. The 'General' tab is also visible. The text inside the dialog reads: 'You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.'

Under the 'General' tab, the following options are visible:

- ☒ Obtain an IP address automatically
- ☐ Use the following IP address:

Below the 'Use the following IP address' option, there are three input fields for IP address, Subnet mask, and Default gateway, each containing a single dot (.) as a placeholder.

Under the 'Alternate Configuration' tab, the following options are visible:

- ☒ Obtain DNS server address automatically
- ☐ Use the following DNS server addresses:

Below the 'Use the following DNS server addresses' option, there are two input fields for Preferred DNS server and Alternate DNS server, each containing a single dot (.) as a placeholder.

At the bottom of the dialog, there is a checkbox for 'Validate settings upon exit' and an 'Advanced...' button. The 'OK' and 'Cancel' buttons are at the bottom right.

7. We set the IP of your laptop or computer according to your router's IP

The screenshot shows the 'Internet Protocol Version 4 (TCP/IPv4) Properties' dialog box with the 'General' tab selected. The text inside the dialog reads: 'You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.'

Under the 'General' tab, the following options are visible:

- ☐ Obtain an IP address automatically
- ☒ Use the following IP address:

Below the 'Use the following IP address' option, there are three input fields for IP address, Subnet mask, and Default gateway, each containing a specific IP address:

- IP address: 192 . 168 . 29 . 200
- Subnet mask: 255 . 255 . 255 . 0
- Default gateway: 192 . 168 . 29 . 181

Under the 'Alternate Configuration' tab, the following options are visible:

- ☐ Obtain DNS server address automatically
- ☒ Use the following DNS server addresses:

Below the 'Use the following DNS server addresses' option, there are two input fields for Preferred DNS server and Alternate DNS server, each containing a specific IP address:

- Preferred DNS server: 8 . 8 . 8 . 8
- Alternate DNS server: 8 . 8 . 4 . 4

At the bottom of the dialog, there is a checkbox for 'Validate settings upon exit' and an 'Advanced...' button. The 'OK' and 'Cancel' buttons are at the bottom right.

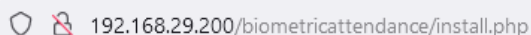
8. We take the IP of the laptop or computer and go to the Arduino code and write it here

```
27 String postData ; // post array that will be send to the website
28 String link = "http://192.168.29.200/biometricattendance/getdata.php"; //computer IP
29 int FingerID = 0; // The Fingerprint ID from the scanner
```

9. Please make sure that you have an internet network with the name "T" and a password "12345678" and if you want to change the , .network settings, you should write them here in the code

```
24 const char *ssid = "T"; //ENTER YOUR WIFI SETTINGS
25 const char *password = "12345678";
// .....
```

10. After writing the IP and WIFI settings, we install the libraries in the file in the Arduino IDE so that we can upload the code to the ESP8266 NodeMCU and also make sure that ,the ESP8266 Boards are available in the Arduino IDE
11. After making sure that all libraries are available and that the boards are available, we connect the USB ,to the laptop or computer choose the correct port for the device, and upload the code.
12. Finally we reach the last step, which is installing the server, first we open the browser and then we write the IP of the laptop or computer and then put it as shown in the picture, after that it will appear to you that a database has been successfully created in the browser



192.168.29.200/biometricattendance/install.php

13. After creating the database, you are now ready to add and delete people's fingerprints and follow up on their attendance and .departure
14. " All that remains is to open this link <http://192.168.29.200/biometricattendance/index.php> "

