INDEX

SL NO.	NAME OF EXPERIMENT	PAGE NO.
01	Xampp Installation	02
02	Employee Management System using Database	11

Experiment 01: Xampp installation

Introduction

XAMPP is a free and open-source tool used by web developers in the Windows family and other platforms to set up the development and testing environment. XAMPP server comes with the XAMPP control panel to manage all its components easily.

.XAMPP server works like a local server in your system that is generally used by PHP developers to test the websites (web-projects).

This tutorial will show you the various steps on how to install and configure the XAMPP server on Windows 10.

Installation Process of the XAMPP Server

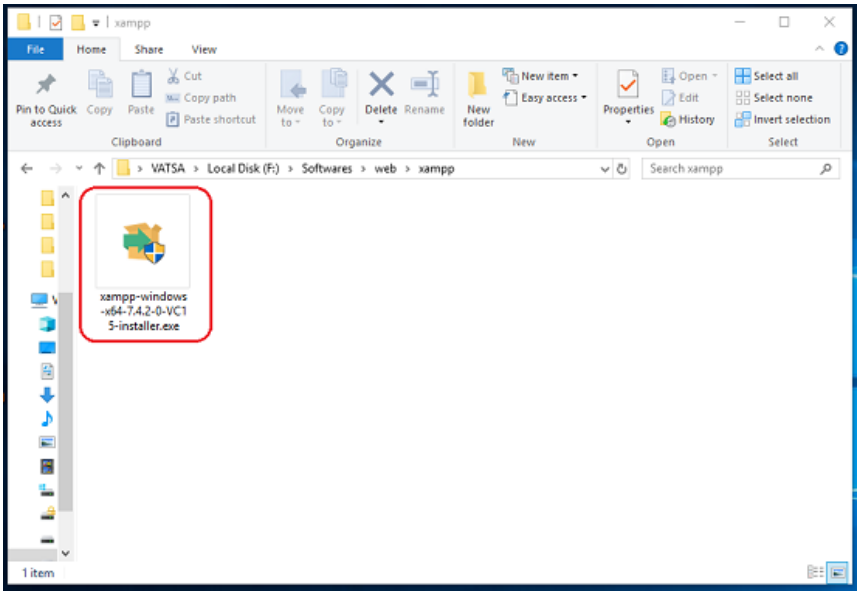
Step 1

To download the XAMPP server, visit the "Apache Friends" website in your web browser.

Step 2

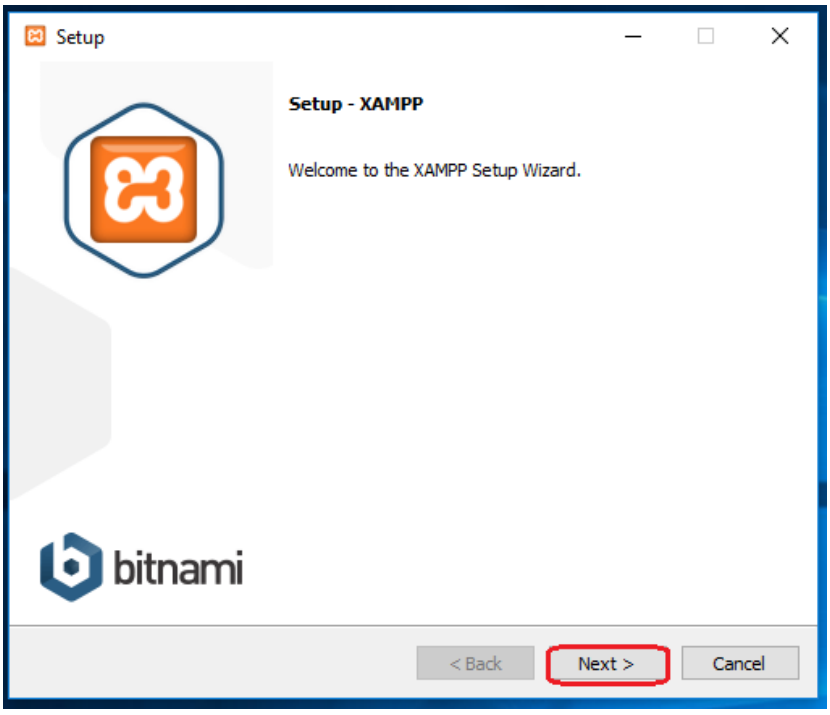
Click on "XAMPP for Windows". Then, navigate the downloading location and the file will be automatically downloaded.

Double-click the downloaded file to launch the XAMPP installer.



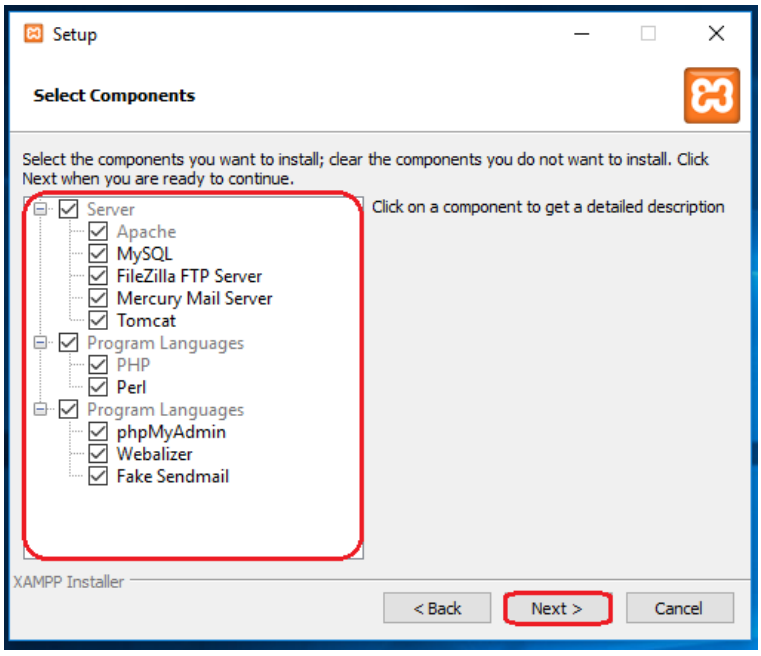
Step 4

"Setup" window will appear on the screen. Then, click on the "Next" button.



Step 5

Select the components that you want to install and click on the "Next" button.



Note

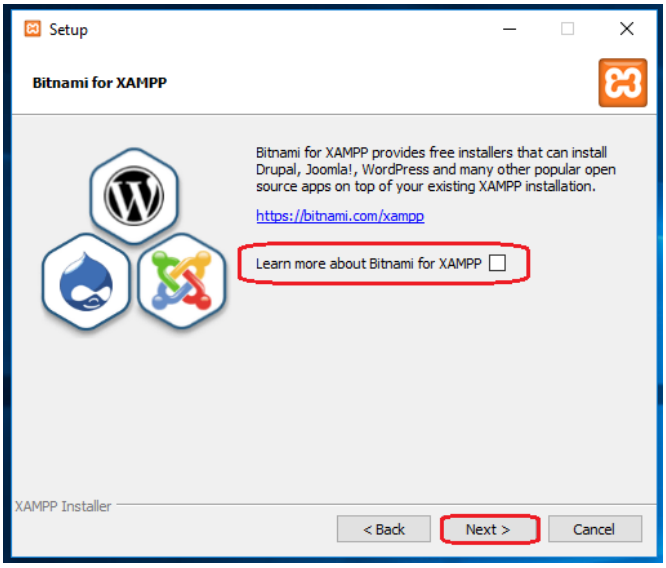
By default, all components are selected in your XAMPP installation.

Step 6

Choose a folder to install the XAMPP and click on the "Next" button.

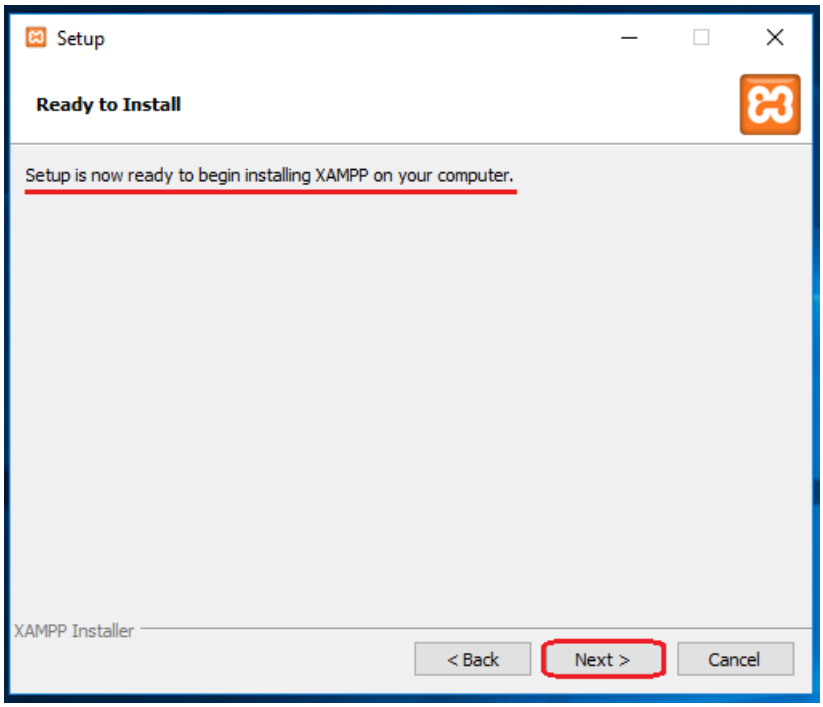
Step 7

Uncheck the "Learn more about Bitnami for XAMPP" option and click on the "Next" button.



Step 8

"Ready to Install" window will appear on the screen, then click on the "Next" button.



Step 9

Click on the "Finish" button.

Step 10

Select a language. (either English or German) and click on the "Save" button.

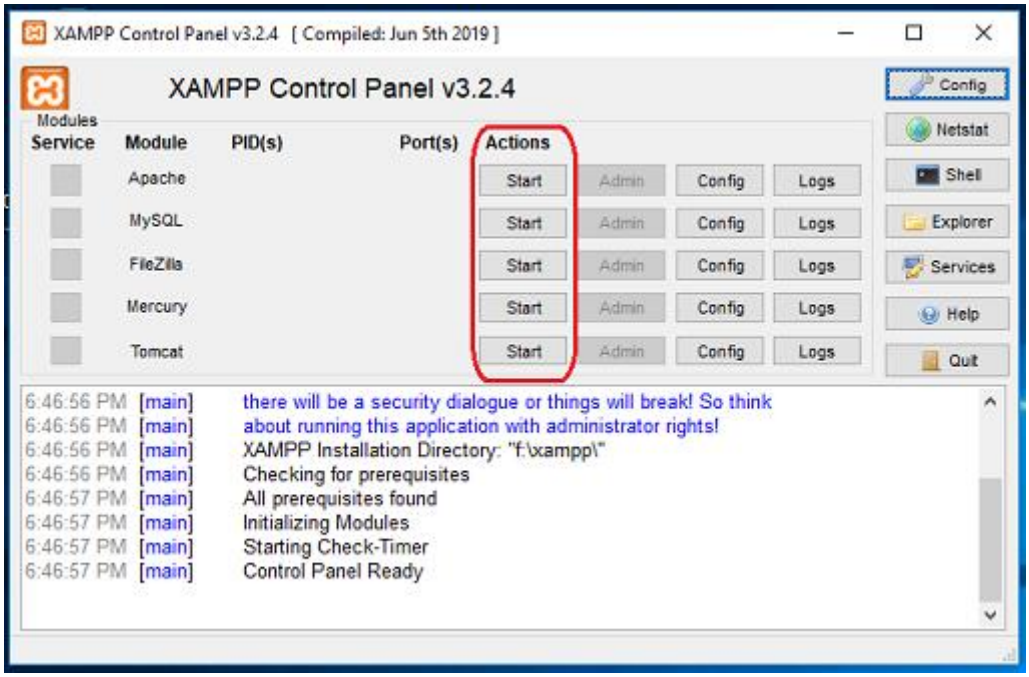
Configuration Process of XAMPP Server

Step 1

Start the XAMPP control panel through the "Run as administrator" option.

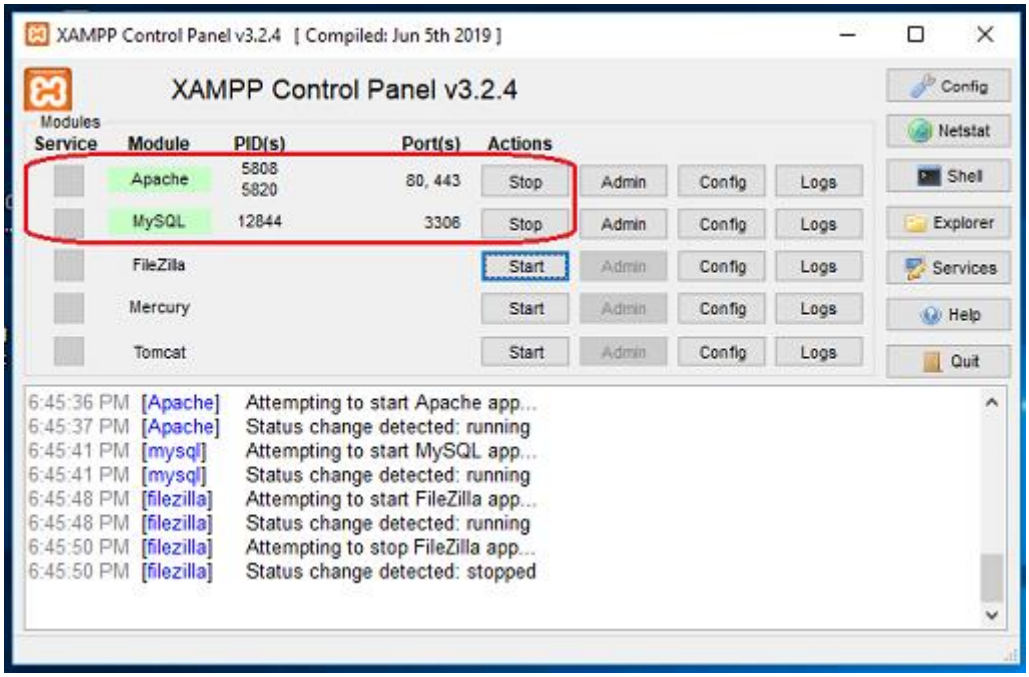
Step 2

"XAMPP Control Panel" will appear on the screen and click on "Start" action to start the "Apache" and "MySQL" modules.



Note:-

The default XAMPP server settings should work for most users. When you start the related modules (services) then, the color of the related modules (service) becomes change into the green color and the PID(s) and the Port(s) number will also be shown to the user.



Fix an Issue of Apache not Starting in XAMPP

Some of the users may face an issue with Apache and MySQL module services not working in XAMPP. However, depending on the setup configuration or usage of your system, you may need to change the port number of the Apache and the MySQL. For example, because the "World Wide Web Services" under "Internet Information Services (IIS)" is also run on port 80 in your system, which is also the default port of apache in XAMPP. And, the two servers (applications) can not use (run) the same port simultaneously. Follow the instructions below to fix the problem with Apache and MySQL services.

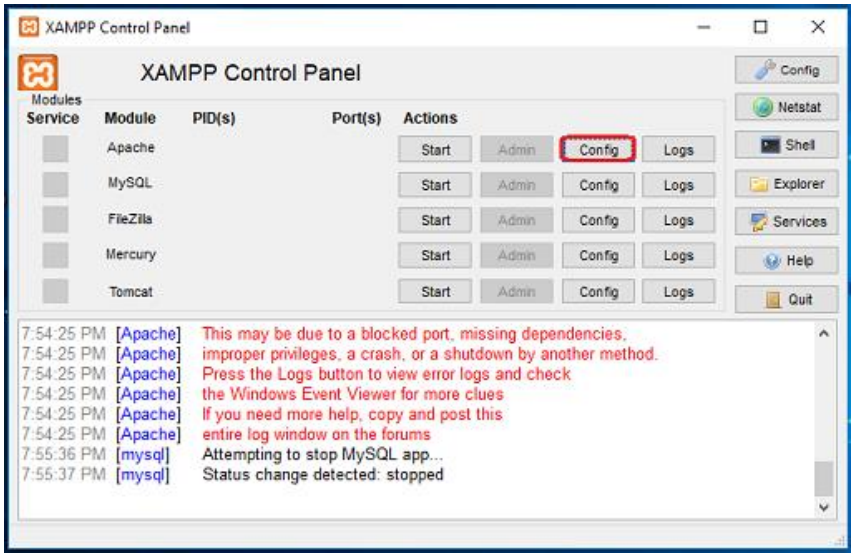
Method 1. Change the default port of Apache

Step 1

Open the XAMPP Control Panel.

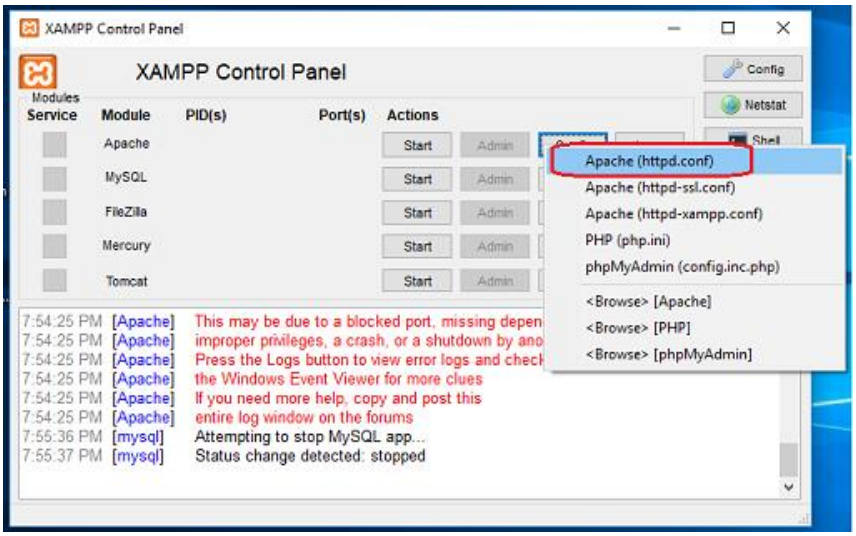
Step 2

In Apache Module Service, click on the "Config" button.



Step 3

Click on "Apache (httpd.conf)" option.



Step 4

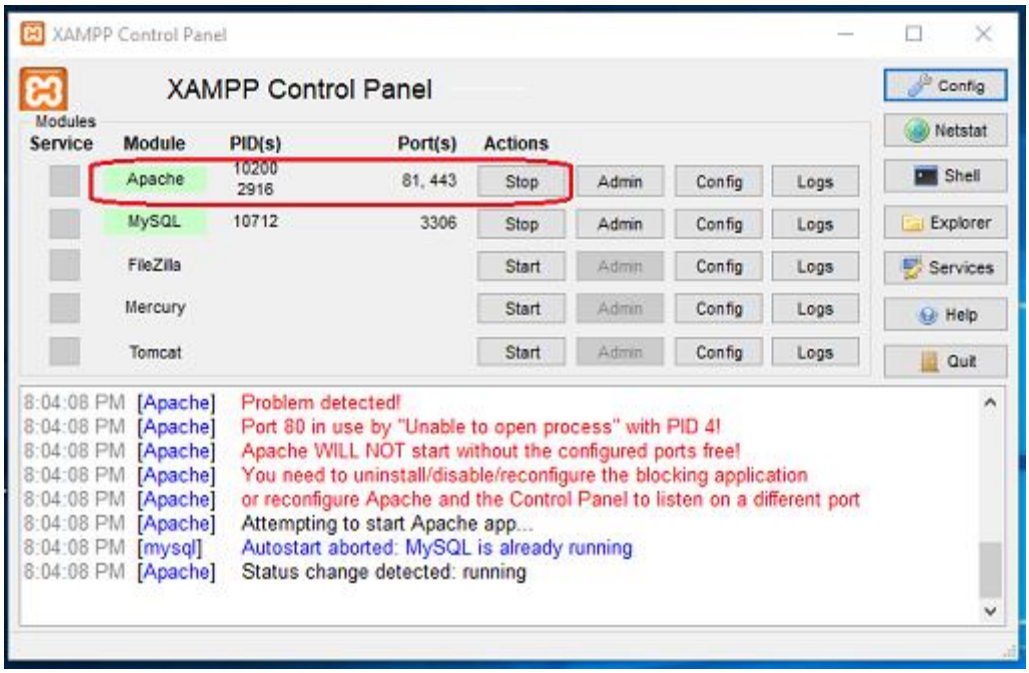
By pressing the "Ctrl + F" key, find the "Listen 80" and replace it with another open port (like 81 or 9080) and save the file.

Step 5

Restart the XAMPP Server.

Step 6

Again, open the "XAMPP Control Panel" and click on the start option under the "Apache" module services.

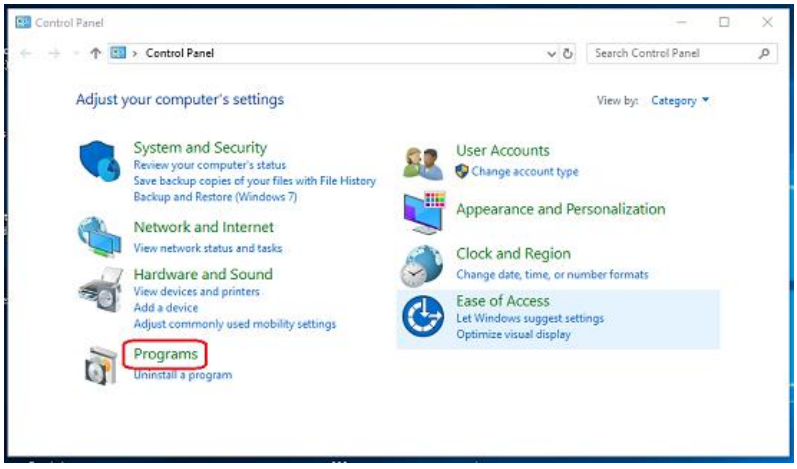


Method 2. By disabling the Internet Information Services (IIS)
Step 1

From the Start Menu, search for Control Panel.

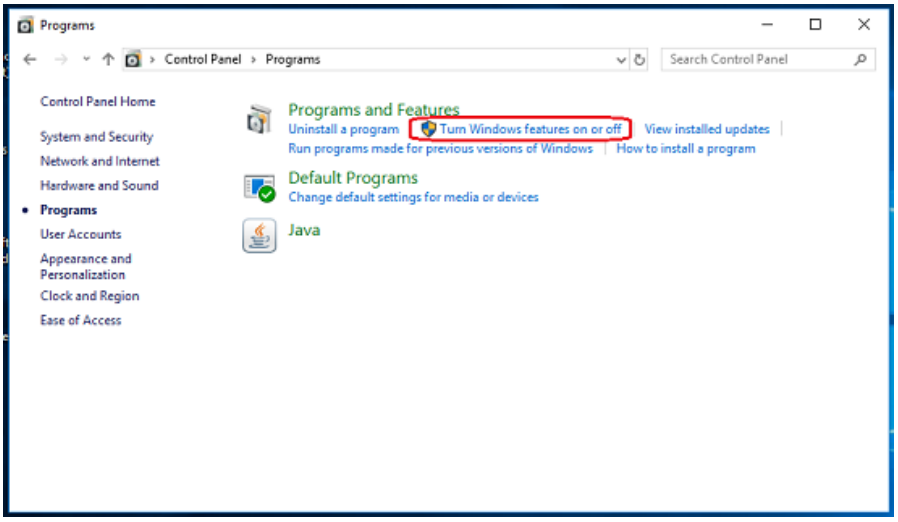
Step 2

Click on "Programs".



Step 3

Click on the "Turn Windows Feature on or off" option.



Step 4

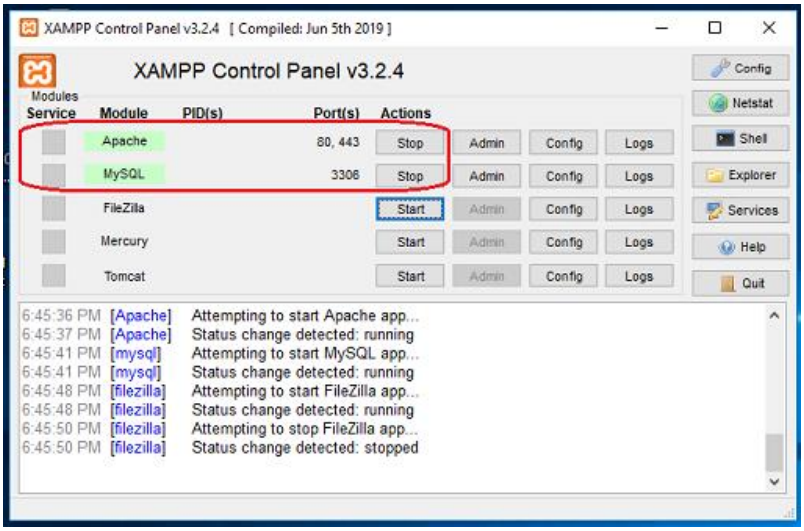
Uncheck (clear) the "Internet Information Services" option and click on the "OK" button.

Step 5

Click on the "Restart Now" option (This will reboot/restart your computer/laptop).

Step 6

Again, open the "XAMPP Control Panel" and click on the start option in the "Apache" module services.



Experiment 02: Employee Management System using Database

```
public class adddata extends javax.swing.JFrame {



    public adddata() {
        initComponents();
    }


    @SuppressWarnings("unchecked")
    Connection con1;
        PreparedStatement insert;

    private void initComponents() {

        button9 = new java.awt.Button();
        textField1 = new java.awt.TextField();
        button1 = new java.awt.Button();
        jScrollPane1 = new javax.swing.JScrollPane();
        jtable1 = new javax.swing.JTable();
        button2 = new java.awt.Button();
        button3 = new java.awt.Button();
        button4 = new java.awt.Button();
        button5 = new java.awt.Button();
        button6 = new java.awt.Button();
        button8 = new java.awt.Button();
        PhoneNo = new javax.swing.JTextField();
        Email = new javax.swing.JTextField();
        Gender = new javax.swing.JTextField();
        Salary = new javax.swing.JTextField();
        DOB = new javax.swing.JTextField();
        EID = new javax.swing.JTextField();
        Name = new javax.swing.JTextField();
        jButton2 = new javax.swing.JButton();
        BtnAdd = new javax.swing.JButton();
        jScrollPane2 = new javax.swing.JScrollPane();

        button9.setLabel("button9");

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        textField1.setBackground(new java.awt.Color(153, 153, 255));
```

```
textField1.setFont(new java.awt.Font("Tahoma", 1, 24));
textField1.setName(""); // NOI18N
textField1.setText("    Employee Management System");
textField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        textField1ActionPerformed(evt);
    }
});

button1.setFont(new java.awt.Font("Tahoma", 1, 18));
button1.setLabel("Employee ID");
button1.setName(""); // NOI18N
button1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button1ActionPerformed(evt);
    }
});

jtable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null}
    },
    new String [] {
        "Employee ID", "Name", "Gender", "DOB", "Phone no", "E-mail", "Salary"
    }
));
jScrollPane1.setViewportView(jtable1);

button2.setFont(new java.awt.Font("Tahoma", 1, 18));
button2.setLabel("Name");
button2.setName(""); // NOI18N
button2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button2ActionPerformed(evt);
    }
});

button3.setFont(new java.awt.Font("Tahoma", 1, 18));
button3.setLabel("DOB");
button3.setName(""); // NOI18N
button3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button3ActionPerformed(evt);
```

```
        }
    });

    button4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    button4.setLabel("Phone no");
    button4.setName(""); // NOI18N
    button4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            button4ActionPerformed(evt);
        }
    });

    button5.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    button5.setLabel("E-mail");
    button5.setName(""); // NOI18N
    button5.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            button5ActionPerformed(evt);
        }
    });

    button6.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    button6.setLabel("Salary");
    button6.setName(""); // NOI18N
    button6.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            button6ActionPerformed(evt);
        }
    });

    button8.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    button8.setLabel("Gender");
    button8.setName(""); // NOI18N
    button8.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            button8ActionPerformed(evt);
        }
    });
```

Add Button Implementation:

```
try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection connection = (Connection)
DriverManager.getConnection("jdbc:mysql://127.0.0.1/employee_management","root",""
);Statement statement = connection.createStatement();
```

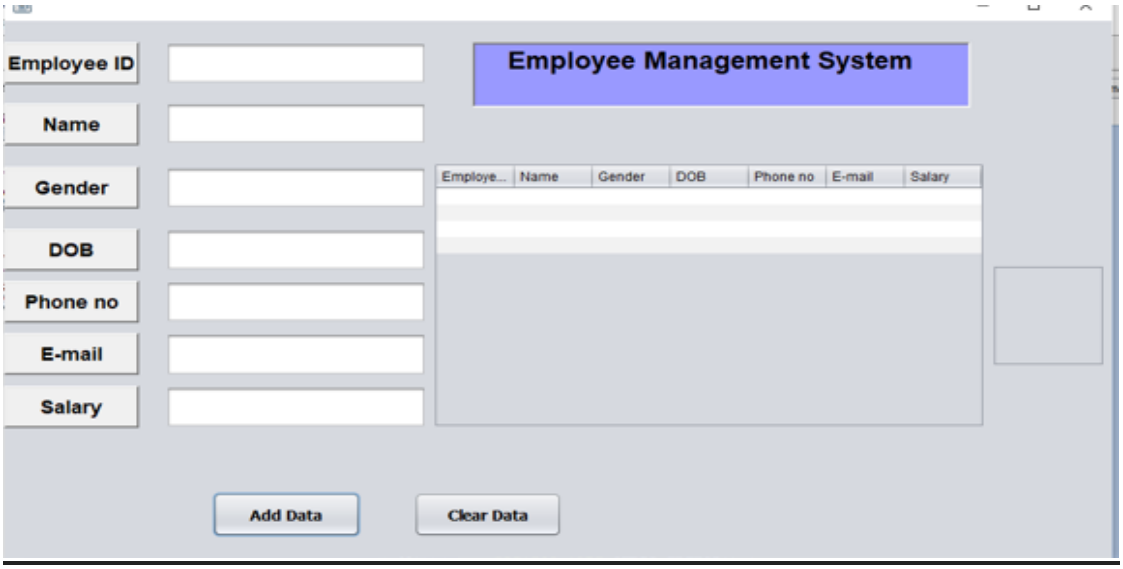
```
            String queryadd = "insert into record2
(E_ID,Name,Gender,DOB,Phone_no,Email,Salary) values
('"+EID.getText()+"','"+Name.getText()+"','"+Gender.getText()+"','"+DOB.getText()+"','"+
PhoneNo.getText()+"','"+Email.getText()+"','"+Salary.getText()+"')";
            System.out.println(queryadd);
            statement.executeUpdate(queryadd);

            JOptionPane.showMessageDialog(this,"Record Added");
            EID.setText("");
            Name.setText("");
            Gender.setText(" ");
            DOB.setText(" ");
            PhoneNo.setText("");
            Email.setText("");
            Salary.setText("");

            connection.close();
            statement.close();


        } catch (ClassNotFoundException | SQLException ex) {
            Logger.getLogger(adddata.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
 try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = (Connection)
DriverManager.getConnection("jdbc:mysql://127.0.0.1/employee_management","root",""
);
            Statement statement = connection.createStatement();
            String querydelete = "delete from record2 where E_ID='"+EID.getText()+"'";
            System.out.println(querydelete);
            statement.executeUpdate(querydelete);

            JOptionPane.showMessageDialog(this,"Record Deleted");

            EID.setText("");
            Name.setText("");
            Gender.setText(" ");
            DOB.setText(" ");
            PhoneNo.setText("");
            Email.setText("");
            Salary.setText("");
            connection.close();
```

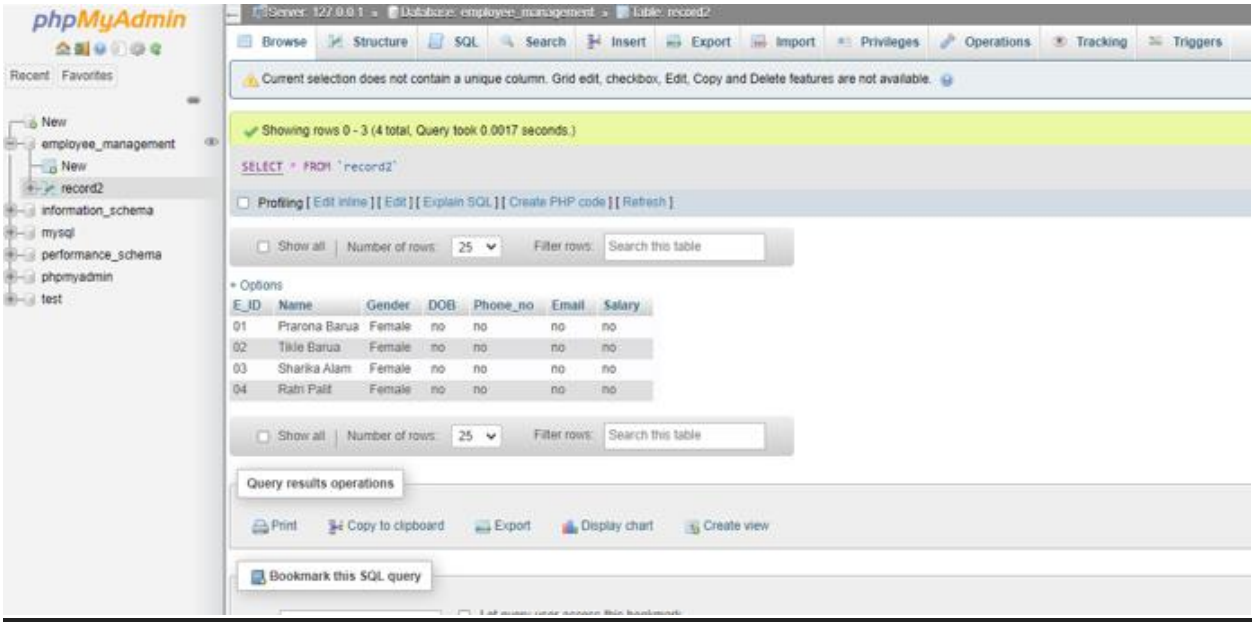
```
            statement.close();

          } catch (ClassNotFoundException | SQLException ex) {
            Logger.getLogger(adddata.class.getName()).log(Level.SEVERE, null, ex);
        }
          }
```

Delete Button Implementation:

```
try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection connection = (Connection)
DriverManager.getConnection("jdbc:mysql://127.0.0.1/employee_management","root","");
        Statement statement = connection.createStatement();
        String querydelete = "delete from record2 where E_ID='"+EID.getText()+"'";
        System.out.println(querydelete);
        statement.executeUpdate(querydelete);

        JOptionPane.showMessageDialog(this,"Record Deleted");

        EID.setText("");
        Name.setText("");
        Gender.setText(" ");
        DOB.setText(" ");
        PhoneNo.setText("");
        Email.setText("");
        Salary.setText("");
        connection.close();
        statement.close();

        } catch (ClassNotFoundException | SQLException ex) {
        Logger.getLogger(adddata.class.getName()).log(Level.SEVERE, null, ex);
      }
```

Output:




phpMyAdmin
Recent Favorites
New
employee_management
New
record2
information_schema
mysql
performance_schema
phpmyadmin
test
Server: 127.0.0.1 » Database: employee_management » Table: record2
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Showing rows 0 - 3 (4 total, Query took 0.0017 seconds.)
SELECT * FROM `record2`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
E_ID Name Gender DOB Phone_no Email Salary
01 Prarona Barua Female no no no no
02 Tikle Barua Female no no no no
03 Sharika Alam Female no no no no
04 Rahi Palit Female no no no no
Show all | Number of rows: 25 Filter rows: Search this table
Query results operations
Print Copy to clipboard Export Display chart Create view
Bookmark this SQL query