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Problem No 1: XAMPP Installation.

Explanation:

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

XAMPP Installation on Windows :

- To download the XAMPP server, visit the "Apache Friends" website in your web browser.
- Click on “XAMPP” for Windows
- Double-click the downloaded file to launch the XAMPP installer.
- "Setup" window will appear on the screen. Then, click on the "Next" button.
- Select the components that you want to install and click on the "Next" button.
- Choose a folder to install the XAMPP and click on the "Next" button.
- Choose a folder to install the XAMPP and click on the "Next" button.
- "Ready to Install" window will appear on the screen, then click on the "Next" button.
- Click on the "Finish" button.
- Select a language. (either English or German) and click on the "Save" button.

XAMPP Configuration Process :

- Start the XAMPP control panel through the "Run as administrator" option.
- "XAMPP Control Panel" will appear on the screen and click on "Start" action to start the "Apache" and "MySQL" modules.

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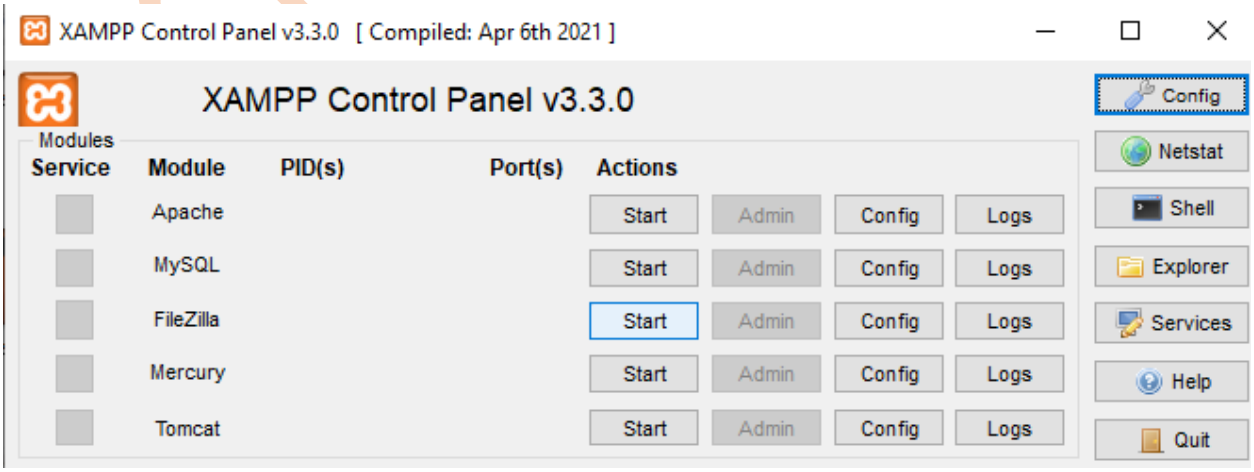
Method 1: Change the default port of Apache :

- Open the XAMPP Control Panel.
- In Apache Module Service, click on the "Config" button.
- Click on "Apache (httpd.conf)" option.
- : 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.
- Restart the XAMPP Server.
- 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 :

- From the Start Menu, search for Control Panel.
- Click on "Programs".
- Click on the "Turn Windows Feature on or off" option.
- Uncheck (clear) the "Internet Information Services" option and click on the "OK" button.
- Click on the "Restart Now" option (This will reboot/restart your computer/laptop).
- Again, open the "XAMPP Control Panel" and click on the start option in the "Apache" module services.



Problem No 2 : Student Management System.

Login Java

Input:

```
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql. SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;


/**
 *
 * @author Tarnob
 */
public class login extends javax.swing.JFrame {
    Connection conn =null;
    Statement stmt = null;
    ResultSet rs = null;

    public login() {
        super("Login");
        initComponents();
        conn = databaseConnection.connection();
    }
    @SuppressWarnings("unchecked")
private void passwordActionPerformed(java.awt.event.ActionEvent evt) {
    }
    private void cancelActionPerformed (java.awt.event.ActionEvent evt) {
        System.exit(0);
    }
 private void loginActionPerformed(java.awt.event.ActionEvent evt) {
            try{
```

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```
        stmt = conn.createStatement();
        String userEmail = email.getText();
        String userPass = password. getText();
        String sql ="SELECT * FROM admin WHERE mail = '"+userEmail+"' && password = '"+userPass+"'";
        rs = stmt.executeQuery(sql);
        if(rs.next()){
                setVisible(false);
           home object = new home();
                object.setVisible(true);
        }else{
         JOptionPane.showMessageDialog(null, "Password or Mail is Invalid");
        }
    }catch(Exception e) {JOptionPane.showMessageDialog(null,"e");}
}
  try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
}
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
```

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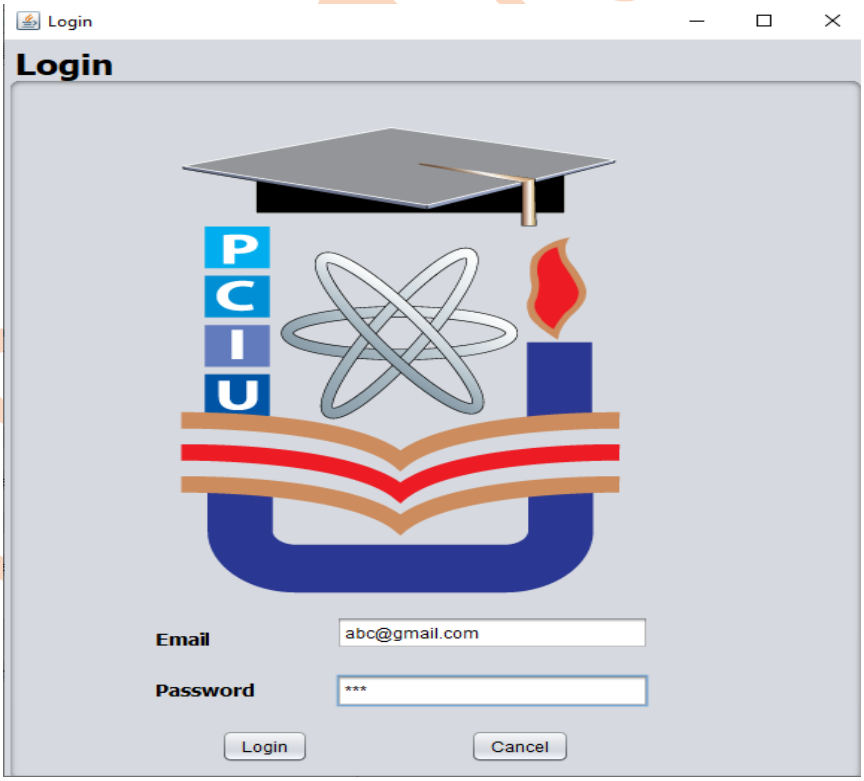
```
  new login().setVisible(true);
      }
   });
}
private javax.swing.JButton cancel;
private javax.swing.JTextField email;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JPanel jPanel1;
private javax.swing.JButton login;
private javax.swing.JPasswordField password;
}
```

Output :



Add Java :

Input:

```
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
/**
 *
 * @author Gourob
 */
public class addStudent extends javax.swing.JFrame {
    Connection conn =null;
    Statement stmt = null;
    ResultSet rs = null;
    public addStudent() {
        super("Add Student");
        initComponents();
        conn = databaseConnection.connection();

    }
    @SuppressWarnings("unchecked")
private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
        home object = new home();
        object.setVisible(true);
    }
    private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {
        setVisible(false);
```

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```
        login object = new login();
        object.setVisible(true);
    }
    private void jMenuItem3ActionPerformed (java.awt.event.ActionEvent evt) {
        setVisible(false);
        about object = new about();
        object.setVisible(true);
    }
    private void submitActionPerformed(java.awt.event.ActionEvent evt) {
        try{
            stmt = conn.createStatement();
            String stdName = name.getText();
            String stdFather = fatherName.getText();
            String stdBlood = (String) blood.getSelectedItem();
            String stdPhone = phone.getText();
            String stdCity = city.getText();
            int stdclass = Integer.parseInt(stdClass.getText());
            String sql = "INSERT INTO STUDENT (stdName,stdFatherName,stdBlood,stdPhone,stdCity,class)
VALUES('"+stdName+"','"+stdFather+"','"+stdBlood+"','"+stdCity+"','"+stdPhone+"', '"+stdclass+"')";
     stmt.executeUpdate(sql);
              JOptionPane.showMessageDialog(null,"Data is successfully inserted");
        }catch(Exception e){
          JOptionPane.showMessageDialog(null, e);
        }
    }
    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
```


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```
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(addStudent.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

   } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(addStudent.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(addStudent.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(addStudent.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new addStudent().setVisible(true);
        }
    });
}
  private javax.swing.JButton back;
  private javax.swing.JComboBox<String> blood;
  private javax.swing.JTextField city;
  private javax.swing.JTextField fatherName;
  private javax.swing.JLabel jLabel1;
```


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```
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JMenu jMenu1;
private javax.swing.JMenu jMenu2;
private javax.swing.JMenuBar jMenuBar1;
private javax.swing.JMenuItem jMenuItem1;
private javax.swing.JMenuItem jMenuItem2;
private javax.swing.JMenuItem jMenuItem3;
private javax.swing.JPanel jPanel1;
private javax.swing.JTextField name;
private javax.swing.JTextField phone;
private javax.swing.JTextField stdClass;
private javax.swing.JButton submit;}
```

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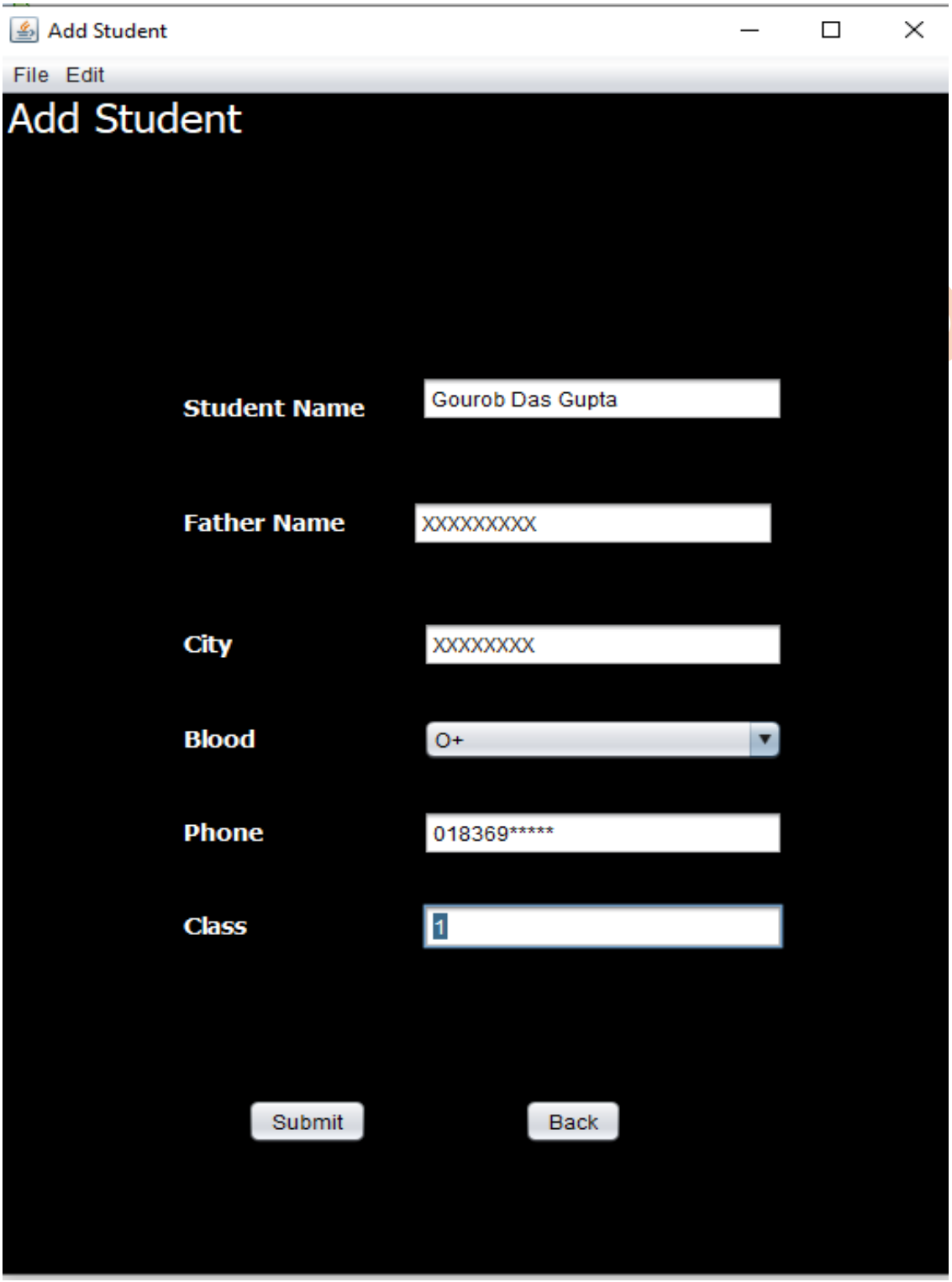
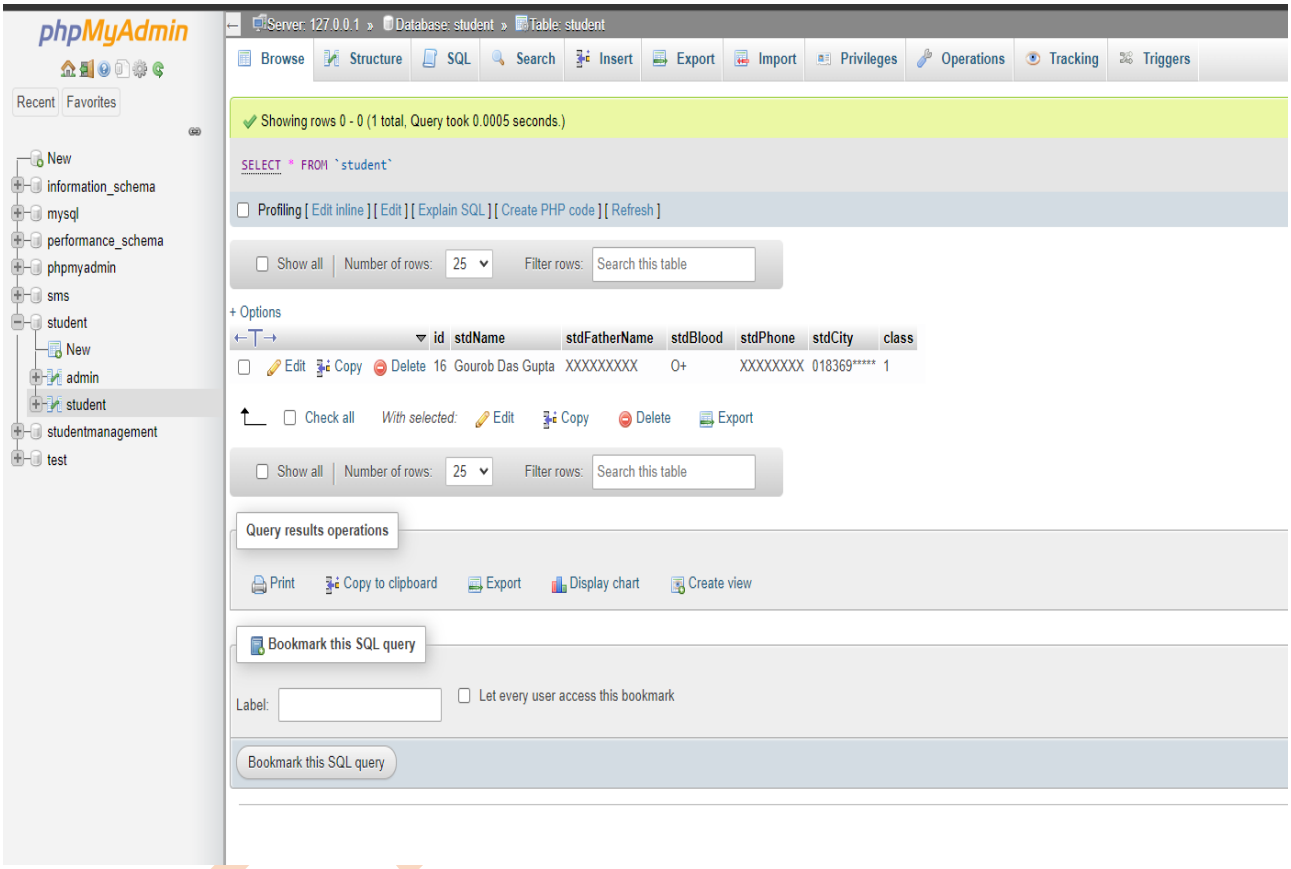
Output :


Add Student
File Edit
Add Student
Student Name
Gourob Das Gupta
Father Name
XXXXXXXXX
City
XXXXXXXX
Blood
O+
Phone
018369*****
Class
1
Submit
Back


phpMyAdmin
Recent Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
sms
student
New
admin
student
studentmanagement
test
Server: 127.0.0.1 » Database: student » Table: student
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers
Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)
SELECT * FROM `student`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
id stdName stdFatherName stdBlood stdPhone stdCity class
Edit Copy Delete 16 Gourob Das Gupta XXXXXXXXX O+ XXXXXXXX 018369***** 1
Check all With selected: Edit Copy Delete Export
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
Label:
Let every user access this bookmark
Bookmark this SQL query