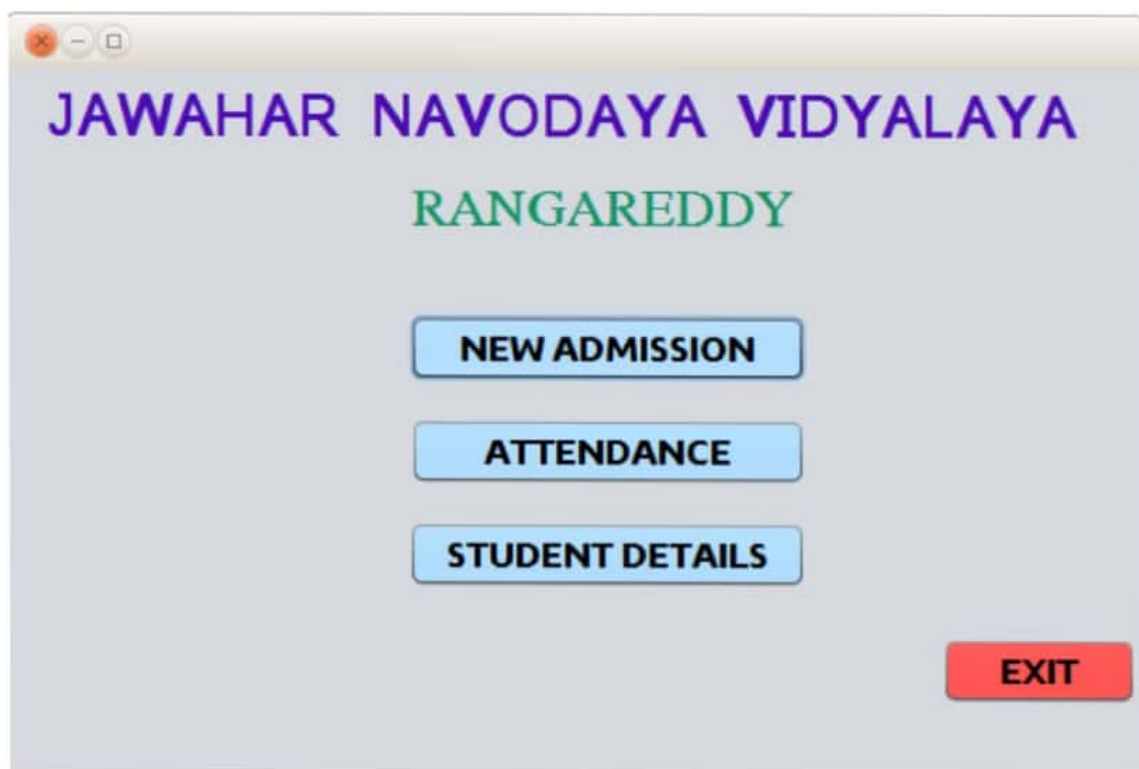


## BEGIN FORM:



The image shows a screenshot of a software application window. The window has a title bar with standard Windows window controls (minimize, maximize, close). The main content area of the window displays the text "JAWAHAR NAVODAYA VIDYALAYA" in a large, bold, purple font, and "RANGAREDDY" in a large, bold, green font below it. Below the text, there are four buttons arranged vertically in the center: "NEW ADMISSION", "ATTENDANCE", and "STUDENT DETAILS" are all light blue with black text, while "EXIT" is a red button with white text. The buttons are rectangular with rounded corners and a slight shadow effect.

This is the beginning through which the user will interact with our application to choose either to make a New Entry or to give Attendance of Students or to get Details of Students.

## **SOURCE CODE:**

### **Code for “NEW ADMISSION” Button:**

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{
    new SAdmission().show(); //opens Admission form
    this.setVisible(false);
}
```

### **Code for “ATTENDANCE” Button:**

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{
    new Attendance().show(); //opens attendance form
    this.setVisible(false);
}
```

### **Code for “STUDENT DETAILS” Button:**

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
{
    new StudentDetails().show(); //opens Student details form
    this.setVisible(false);
}
```

### **Code for “EXIT” Button:**

```
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt)
{
    System.exit(0); //closes application
}
```

## **NEW ADMISSION:**

## **FRONT END:**

## NEW ADMISSION

Date of Admission	Day <input type="text" value="SELECT"/>	Month <input type="text" value="SELECT"/>	Year <input type="text" value="SELECT"/>
AdmNo	<input type="text"/>		
Full Name	<input type="text"/>		
Class	<input type="text" value="SELECT"/>		
Father's Name	<input type="text"/>		
Mother's Name	<input type="text"/>		
Guardian's Name	<input type="text"/>		
House Alloted	<input type="text" value="SELECT"/>		
HM Name	<input type="text"/>		
Address	<input type="text"/>		
Phone No	<input type="text"/>		
Email	<input type="text"/>		
Financial Status	<input type="text" value="SELECT"/>		

OK
BACK
EXIT

This form takes DETAILS OF STUDENTS during their ADMISSION. The OK Button is used to STORE DATA in the Backened. The CLEAR Button CLEAR THE FIELDS after the storage of data so that the form will be ready for next entry. The BACK Button takes user to BEGIN FORM. The EXIT Button is used to CLOSE THE APPLICATION.

## **SOURCE CODE:**

### **Code to establish connection with mysql:**

```
import javax.swing.JOptionPane;
import java.sql.DriverManager;
import java.sql.Connection;
import java.sql.Statement;
```

### **Code for “OK” Button:**

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{
    String day =(String) Day.getSelectedItemAt();
    String month= (String) Month.getSelectedItemAt();
```

```

String year=(String) Year.getSelectedItem();
String date =year + "-" + month + "-" + day;
String sclass=(String)SClass.getSelectedItem();
String admno=AdmNo.getText();
String sname=SName.getText();
String fname=FName.getText();
String mname=MName.getText();
String gname =GName.getText();
String address=Address.getText();
String phone=Phone.getText();
String email=Email.getText();
String hm=HM.getText();
String house=(String)House.getSelectedItem();
String fstatus=(String)FStatus.getSelectedItem();
if(Day.getSelectedIndex()==0)
JOptionPane.showMessageDialog(this,"Please select Day");
if(Month.getSelectedIndex()==0)
JOptionPane.showMessageDialog(this,"Please select Month");
if(Year.getSelectedIndex()==0)
JOptionPane.showMessageDialog(this,"Please select Year");
if(SClass.getSelectedIndex()==0)
JOptionPane.showMessageDialog(this,"Please select Class");
if(House.getSelectedIndex()==0)
JOptionPane.showMessageDialog(this,"Please select House");
if(FStatus.getSelectedIndex()==0)
JOptionPane.showMessageDialog(this,"Please select Financial Status");
if(admno.isEmpty())
JOptionPane.showMessageDialog(this,"Please enter AdmNo");
if(sname.isEmpty())
JOptionPane.showMessageDialog(this,"Please enter Student's Name");
if(fname.isEmpty())
JOptionPane.showMessageDialog(this,"Please enter Father's Name");
if(mname.isEmpty())
JOptionPane.showMessageDialog(this,"Please enter Mother's Name");
if(address.isEmpty())
JOptionPane.showMessageDialog(this,"Please enter Address");
if(phone.isEmpty())
JOptionPane.showMessageDialog(this,"Please enter PhoneNo");
if(email.isEmpty())
JOptionPane.showMessageDialog(this,"Please enter Email");
if(hm.isEmpty())
JOptionPane.showMessageDialog(this,"Please enter HMName");

try
{
    Class.forName("java.sql.DriverManager");
    Connection con=(Connection)DriverManager.getConnection
        ("jdbc:mysql://localhost:3306/student","root","password");
    Statement stmt=(Statement)con.createStatement();
    String query="INSERT INTO Admission VALUES
        ('"+date+"','"+admno+"','"+sname+"',
        '"+sclass+"','"+fname+"','"+mname+"','"+gname+"','"+house+"',

```

```

        ""+hm+"", ""
+address+"", ""+phone+"", ""+email+"", ""+fstatus+"", 0,0,0,'NO');";
        stmt.executeUpdate(query);
        JOptionPane.showMessageDialog(this,"YOUR ENTRY IS SAVED");
        SName.setText("");
        FName.setText("");
        MName.setText("");
        GName.setText("");
        Address.setText("");
        Phone.setText("");
        Email.setText("");
        AdmNo.setText("");
        HM.setText("");
        Day.setSelectedIndex(0);
        Month.setSelectedIndex(0);
        Year.setSelectedIndex(0);
        SClass.setSelectedIndex(0);
        House.setSelectedIndex(0);
        FStatus.setSelectedIndex(0);

    }

    catch (Exception o)
    {
        JOptionPane.showMessageDialog(this,o.getMessage());
    }

}

```

### **Code for “BACK” Button:**

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{
    new Begin().show(); //opens begin form
    this.setVisible(false);
}

```

### **Code for “EXIT” Button:**

```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
{
    System.exit(0); // closes the application
}

```

## **BACK END:**

**Database used for the application:** STUDENT

**Table used to store the**

**details of the students entered in the form :** ADMISSION

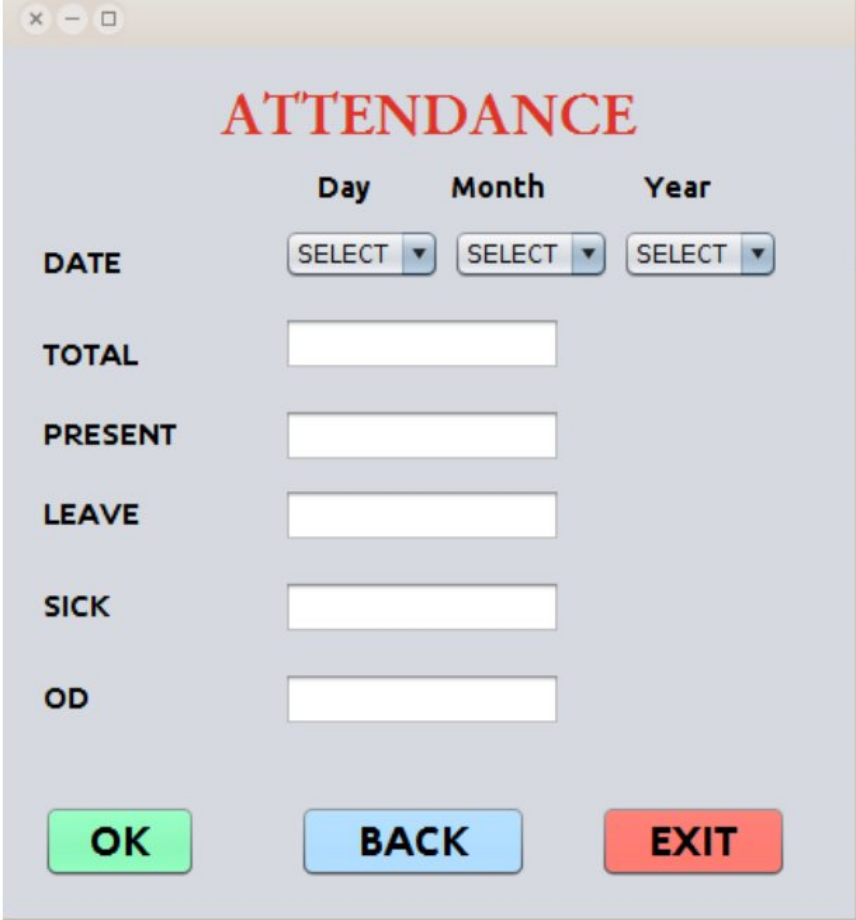
**Description of the ADMISSION table:**

```
mysql> desc Admission;
```

Field	Type	Null	Key	Default	Extra
DOA	date	NO		0000-00-00	
Admno	varchar(15)	NO	PRI		
StudentName	varchar(25)	YES		NULL	
Class	varchar(5)	YES		NULL	
FatherName	varchar(25)	YES		NULL	
MotherName	varchar(25)	YES		NULL	
GuardianName	varchar(25)	YES		NULL	
House	varchar(10)	YES		NULL	
HouseMasterName	varchar(25)	YES		NULL	
Address	varchar(100)	YES		NULL	
Phone	varchar(15)	YES		NULL	
Email	varchar(40)	YES		NULL	
FinancialStatus	varchar(30)	YES		NULL	
OnLeave	int(3)	YES		NULL	
Sick	int(3)	YES		NULL	
OnDuty	int(3)	YES		NULL	
Relieved	varchar(6)	YES		NULL	

## ATTENDANCE FORM:

### FRONT END:



The screenshot shows a Java Swing window titled "ATTENDANCE" in red. The window has a light blue background. At the top, there are three labels: "Day", "Month", and "Year". Below these labels are three "SELECT" dropdown menus. To the left of these dropdowns are the labels "DATE", "TOTAL", "PRESENT", "LEAVE", "SICK", and "OD". Each label is followed by a text input field. At the bottom of the window, there are three buttons: "OK" (green), "BACK" (blue), and "EXIT" (red).

This form TAKES THE ATTENDANCE of Students on regular basis which is stored in backened.The action of OK Button is to CHECK whether the attendance entered is ACCURATE.And takes the AdmNo. Of Students who are NOT present.The data will be updated simultaneously for the corresponding Student.The BACK Button takes the user to BEGIN FORM.To CLOSE THE APPLICATION EXIT Button is used.

### SOURCE CODE:

**Code to establish connection with mysql:**

```
import javax.swing.JOptionPane;  
import java.sql.DriverManager;  
import java.sql.Connection;  
import java.sql.ResultSet;  
import java.sql.Statement;
```

### Code for "OK" Button:

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{
    String day=(String) Day.getSelectedItemAt();
    String month=(String)Month.getSelectedItemAt();
    String year=(String)Year.getSelectedItemAt();
    String date =year + "-" + month + "-" + day;
    int total=Integer.parseInt(Total.getText());
    int present=Integer.parseInt(Present.getText());
    int leave=Integer.parseInt(Leave.getText());
    int sick=Integer.parseInt(Sick.getText());
    int od=Integer.parseInt(OD.getText());

    try
    {
        Class.forName("java.sql.DriverManager");
        Connection con=(Connection)DriverManager.getConnection
            ("jdbc:mysql://localhost:3306/student","root","password");
        Statement stmt=(Statement)con.createStatement();
        String query="Select * from Admission where Relieved ='NO'";
        ResultSet rs = stmt.executeQuery(query);
        int check=present+leave+sick+od;
        int count = 0;    //to check the total entered by the user is correct
        while (rs.next())
        {
            count++;
        }
        if(count<total)
        {
            JOptionPane.showMessageDialog(this,"Please Enter Details of Fresher ");
            new SAdmission().show();
            this.setVisible(false);
        }

        else if (count>total)
        {
            String admno1;
            for(int i=count;count>total;i--)
            {
                admno1 = JOptionPane.showInputDialog(this,"Enter AdmNo. of the Student Relieved");
                try
                {
                    Class.forName("java.sql.DriverManager");
                    Connection con1 = (Connection)DriverManager.getConnection
                        ("jdbc:mysql://localhost:3306/student", "root", "password");
                    Statement stmt1 = (Statement)con1.createStatement();
                    String query1="UPDATE Admission set Relieved='YES' WHERE Admno='"+admno1+"'";
                    stmt1.executeUpdate(query1);
                }
                catch(Exception e)
                {
                    JOptionPane.showMessageDialog(this,e.getMessage());
                }
            }
        }

        else if(check!=total)
        {
            JOptionPane.showMessageDialog(this,"Please check the Attendance");
        }
    }
}
```



```

if(leave>0) //gets the Admno of Student on leave
{
    String admno2;
    for(int i=leave;i>0;i--)
    {
        admno2=JOptionPane.showInputDialog(this,"Enter Admno. of the Student on Leave");
        try
        {
            Class.forName("java.sql.DriverManager");
            Connection con2=(Connection)DriverManager.getConnection
                ("jdbc:mysql://localhost:3306/student", "root", "password");
            Statement stmt2=(Statement)con2.createStatement();
            String query2="UPDATE Admission set OnLeave=OnLeave+1
                            WHERE Admno='"+admno2+"';";
            stmt2.executeUpdate(query2);
        }
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(this,e.getMessage());
        }
    }
}

if(sick>0) //gets the Admno of Student on Sick
{
    String admno3;
    for(int i=sick;i>0;i--)
    {
        admno3=JOptionPane.showInputDialog(this,"Enter Admno. of the Sick Student");
        try
        {
            Class.forName("java.sql.DriverManager");
            Connection con3=(Connection)DriverManager.getConnection
                ("jdbc:mysql://localhost:3306/student", "root", "password");
            Statement stmt3=(Statement)con3.createStatement();
            String query3="UPDATE Admission set Sick=Sick+1 WHERE Admno='"+admno3+"';";
            stmt3.executeUpdate(query3);
        }
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(this,e.getMessage());
        }
    }
}

if(od>0) // //gets the Admno of Student on OD
{
    String admno4;
    for(int i=od;i>0;i--)
    {
        admno4=JOptionPane.showInputDialog(this,"Enter Admno. of the OD Student ");
        try
        {
            Class.forName("java.sql.DriverManager");

            Connection con4=(Connection)DriverManager.getConnection
                ("jdbc:mysql://localhost:3306/student", "root", "password");
            Statement stmt4=(Statement)con4.createStatement();
            String query4="UPDATE Admission set OD=OD+1 WHERE Admno='"+admno4+"';";
            stmt4.executeUpdate(query4);
        }
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(this,e.getMessage());
        }
    }
}

```

```

    }
    }
}
if(count==total) // if entered total is correct attendance gets saved
{
    try
    {
        Class.forName("java.sql.DriverManager");
        Connection con5=(Connection)DriverManager.getConnection
            ("jdbc:mysql://localhost:3306/student", "root", "password");
        Statement stmt5=(Statement)con5.createStatement();
        String query5="INSERT INTO Attendance values
            (""+date+"",""+total+"",""+present+"",""+leave+"",""+sick+"",""+od+"");";
        stmt5.executeUpdate(query5);
        JOptionPane.showMessageDialog(this,"Attendance is Saved");
        Total.setText("");
        Present.setText("");
        Leave.setText("");
        Sick.setText("");
        OD.setText("");
        Day.setSelectedIndex(0);
        Month.setSelectedIndex(0);
        Year.setSelectedIndex(0);
    }
    catch(Exception e)
    {
        JOptionPane.showMessageDialog(this,e.getMessage());
    }
}
}
catch(Exception e)
{
    JOptionPane.showMessageDialog(this,e.getMessage());
}
}

```

#### **Code for “BACK” Button:**

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{
    new Begin().show(); //opens Begin form
    this.setVisible(false);
}

```

#### **Code for “EXIT” Button:**

```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
{
    System.exit(0); //closes the application
}

```

### **BACK END:**

**Database used for the application:** STUDENT

**Table used to store the**

**details of the students entered in the form :** ATTENDANCE

**Description of the ATTENDANCE table:**

**Data in the  
Attendance  
Table:**

```
mysql> desc Attendance;
```

Field	Type	Null	Key	Default	Extra
Date	date	YES		NULL	
Total	int(4)	YES		NULL	
Present	int(4)	YES		NULL	
OnLeave	int(3)	YES		NULL	
Sick	int(3)	YES		NULL	
OD	int(3)	YES		NULL	

```
mysql> select * from Attendance;
```

Date	Total	Present	OnLeave	Sick	OD
2016-02-03	10	9	1	0	0
2016-04-01	10	9	0	1	0

## STUDENT DETAILS FORM:

## STUDENT DETAILS

Student Name	DOA	Class	Adm No.	Father Name	Mother Name	Guardian Name	Address	Phone	E-Mail
Ram	2014-02-03	11D	JNVRR004	Krishna	Radha	Geeta	Jaqital, Karimnaqar	9868778899	ramani37@gmail.com

FStatus	House	Days on Leave	Days on Sick	Days on OD	Relieved
200000 to 300000	NILGIRI	0		1	0 NO

☐ All Students
 ☒ Particular Student

REFRESH
RESET
BACK
EXIT

This form PROVIDES the OPTION to get the information of ALL STUDENTS or PARTICULAR STUDENT. The REFRESH Button PROVIDES the DETAILS according to the choosed option, along with the NUMBER OF DAYS the student is on LEAVE, SICK and ONDUTY till date. The RESET Button CLEARS the information in the table. The BACK Button takes the user to the BEGIN FORM and EXIT Button CLOSES THE APPLICATION.

## SOURCE CODE:

### Code for "REFRESH" Button:

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{
    DefaultTableModel model1 = (DefaultTableModel) STable1.getModel();
    DefaultTableModel model2 = (DefaultTableModel) STable2.getModel();

    try
    {
        Class.forName("java.sql.DriverManager");
        Connection con=(Connection)DriverManager.getConnection
            ("jdbc:mysql://localhost:3306/student","root","password");
        Statement stmt=(Statement)con.createStatement();
        String query1="", admno;
        if(jRadioButton1.isSelected())
            query1="Select * from Admission;";
        else if(jRadioButton2.isSelected())
        {
            admno=JOptionPane.showInputDialog(this,"Enter Admission Number");
            query1="Select * from Admission where AdmNo="+admno+";";
        }
        ResultSet rs1 =stmt.executeQuery(query1);
        while(rs1.next())
        {
            String date =rs1.getString("DOA");
            String sclass=rs1.getString("Class");
```

```

        String admno1=rs1.getString("Admno");
        String sname=rs1.getString("StudentName");
        String fname=rs1.getString("FatherName");
        String mname=rs1.getString("MotherName");
        String gname =rs1.getString("GuardianName");
        String address=rs1.getString("Address");
        String phone=rs1.getString("Phone");
        String email=rs1.getString("Email");
        String house=rs1.getString("House");
        String fstatus=rs1.getString("FinancialStatus");
        int onleave=rs1.getInt("OnLeave");
        int sick=rs1.getInt("Sick");
        int od=rs1.getInt("OnDuty");
        String relieved=rs1.getString("Relieved");
        model1.addRow(new Object[]
                        {sname,date,sclass,admno1,fname,mname,gname,address,phone,email});
        model2.addRow(new Object[] {fstatus,house,onleave,sick,od,relieved});

    }
}
catch(Exception e)
{
    JOptionPane.showMessageDialog(this,e.getMessage());
}
}

```

#### **Code for “RESET” Button:**

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{
    DefaultTableModel model1=(DefaultTableModel) STable1.getModel();
    int rows1=model1.getRowCount();
    if(rows1>0)
    {
        for(int i = 0; i<rows1 ; i++)
            model1.removeRow(0); //removes all the rows from the table
    }
    DefaultTableModel model2=(DefaultTableModel) STable2.getModel();
    int rows2=model2.getRowCount();
    if(rows2>0)
    {
        for(int i = 0; i<rows2 ; i++)
            model2.removeRow(0); //removes all the rows from the table
    }
}

```

#### **Code for “BACK” Button:**

```

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt)
{
    new Begin().show(); //opens begin form
    this.setVisible(false);
}

```

#### **Code for “EXIT” Button:**

```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
{
    System.exit(0); //closes the application
}

```