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JAVA DA-3:

CONNECTING TO MYSQL USING JAVAFX:

PROGRAM:

Javafxstu.java

```
package javafxstu;
import java.sql.*;
import javafx.application.Application;
import javafx.event.ActionEvent;
import javafx.event.EventHandler;
import javafx.scene.Scene;
import javafx.scene.control.Button;

import javafx.stage.Stage;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;

import javafx.geometry.Insets;
import java.lang.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.DefaultComboBoxModel;
/**
 *
 * @author patri
 */
public class Javafxstu extends Application {

    String[][] arr = new String[10][5];
    int i=0;
    @Override
    public void start(Stage primaryStage) {
        String conString = "jdbc:mysql://localhost:3306/patri";
        String username = "root";
        String password = "UtcL664+";
        Button save = new Button();
        save.setText("SAVE");
        Button b1=new Button();
```

```
        b1.setText("<<");
        Button b2=new Button();
        b2.setText(">>");
        Button b3=new Button();
        b3.setText("Search");
        Label l1=new Label("First Name: ");
        Label l2= new Label("Last Name: ");
        Label l3=new Label("Gender: ");
        Label l4= new Label("Reg. No: ");
        Label l5=new Label("Branch: ");
        Label l6=new Label("Search Reg No: ");
        Label l7=new Label("");
        Label l8=new Label("");
        Label l9=new Label("");
        Label l10=new Label("");
        Label l11=new Label("");
        Label l12=new Label("");
        Label l13=new Label("");
        Label l14=new Label("");
        Label l15=new Label("");
        Label l16=new Label("");
        TextField t1=new TextField("");
        TextField t2=new TextField("");
        TextField t3=new TextField("");
        TextField t4=new TextField("");
        TextField t5=new TextField("");
        TextField t6=new TextField("");

        HBox h1=new HBox();
        h1.getChildren().addAll(l6,t1,b3);
        HBox h2=new HBox();
        h1.setSpacing(10);
        h2.getChildren().addAll(l1,t2);
        HBox h3=new HBox();
        h3.getChildren().addAll(l2,t3);
        HBox h4=new HBox();
        h4.getChildren().addAll(l3,t5);
        HBox h5=new HBox();
        h4.setSpacing(10);
        h5.getChildren().addAll(l4,t4);
        HBox h6=new HBox();
        h6.getChildren().addAll(l5,t6);
        HBox h7=new HBox();
        h7.getChildren().addAll(b1,save,b2);
        h7.setSpacing(10);
        HBox h8=new HBox();
        h8.getChildren().addAll(l12,l13,l14,l15,l16);
        h8.setSpacing(30);
```

```
        HBox h9=new HBox();
        h9.getChildren().addAll(l7,l8,l9,l10,l11);
        h9.setSpacing(45);
        VBox v=new VBox();

        v.getChildren().addAll(h1,h2,h3,h4,h5,h6,h7,h8,h9);
        v.setPadding(new Insets(10,50,50,50));
        v.setSpacing(20);
        Scene scene = new Scene(v, 680, 600);
        save.setOnAction(new EventHandler<ActionEvent>(){
           @Override
           public void handle(ActionEvent e)
           {
               //firstname,lastname,gender,reg.no,branch

                try
                {
                        System.out.println("connecting to the data
source......");
                        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/patri","root","Ut
cL664+");
                        PreparedStatement ps = con.prepareStatement("insert
into student values (?,?,?,?,?)");
                        ps.setString(1, t2.getText());
                        ps.setString(2,t3.getText());
                    ps.setString(3, t5.getText());
                    ps.setString(4,t4.getText());
                    ps.setString(5, t6.getText());

                        int count = ps.executeUpdate();
                        System.out.println(count + " Number of records
inserted");
                        con.close();
                }
                catch(Exception ea){ System.out.println(ea);}
                }


        });
        try
                {
                   String query ="select * from student;";
                   Connection Conn = DriverManager.getConnection(conString,
username, password);
                   PreparedStatement s=Conn.prepareStatement(query);
                   ResultSet rs=s.executeQuery();
                   while(rs.next())
```

```
                {
                    l12.setText("Firstname");
                    l13.setText("Lastname");
                    l14.setText("Gender");
                    l15.setText("Regno");
                    l16.setText("Branch");
                    arr[i][0]=rs.getString("firstname");
                    arr[i][1]=rs.getString("lastname");
                    arr[i][2]=rs.getString("gender");
                    arr[i][3]=rs.getString("regno");
                    arr[i][4]=rs.getString("branch");
                    i++;
                }


            Conn.close();
            }

            catch (Exception ex)
            {
                //return false;
                System.out.println(ex);
            }
        b3.setOnAction(new EventHandler<ActionEvent>(){
            @Override
            public void handle(ActionEvent e)
            {
                int ij=0;

                while(ij<i)
                {

                    if(t1.getText().equalsIgnoreCase(arr[ij][3]))
                    {
                        l7.setText(arr[ij][0]);
                    l8.setText(arr[ij][1]);
                    l9.setText(arr[ij][2]);
                    l10.setText(arr[ij][3]);
                    l11.setText(arr[ij][4]);
                        i=ij;
                        break;
                        }

                        ij++;
                }

            }
        });
```

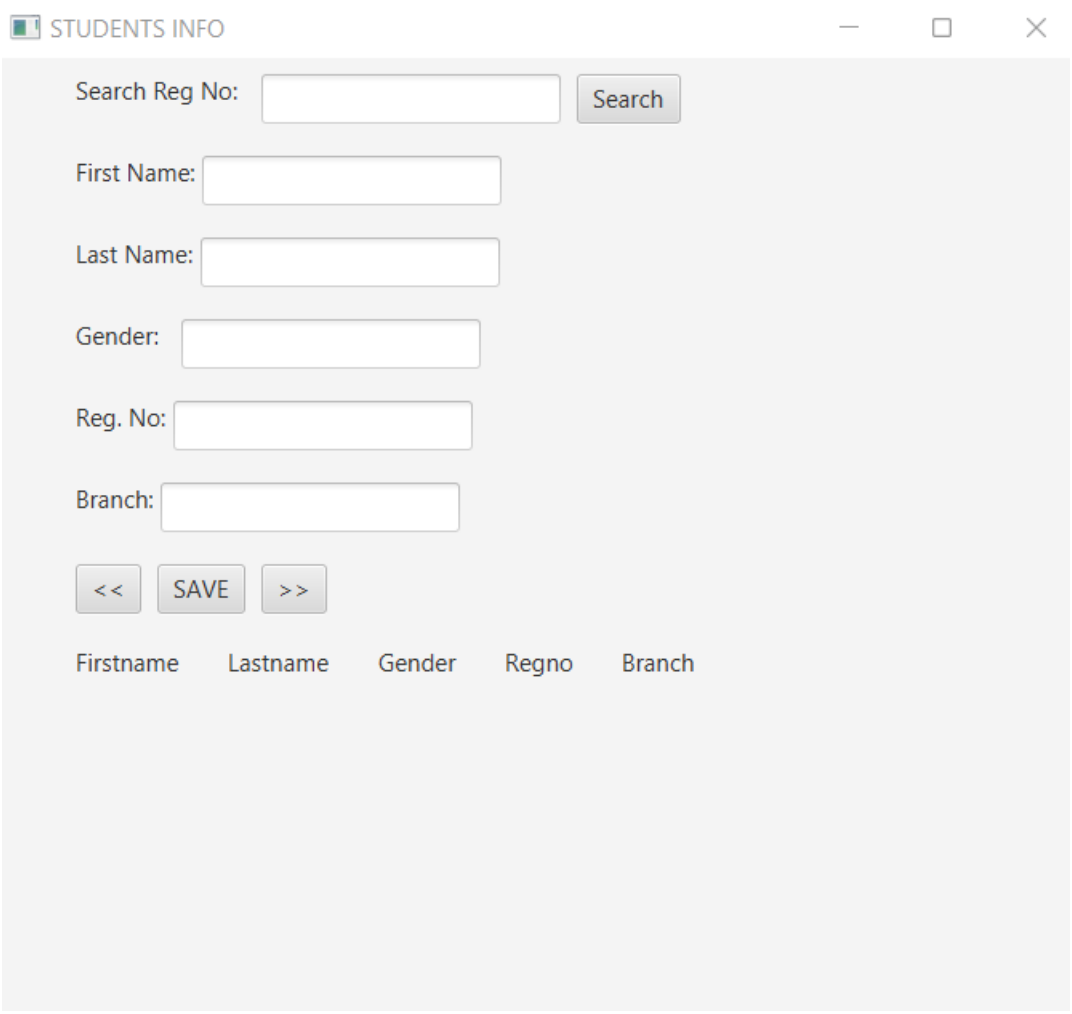
```
        b1.setOnAction(new EventHandler<ActionEvent>(){
            @Override
            public void handle(ActionEvent e)
            {
                if(i>0){
             i--;
             t2.setText(arr[i][0]);
             t3.setText(arr[i][1]);
             t5.setText(arr[i][2]);
                 t4.setText(arr[i][3]);
             t6.setText(arr[i][4]);
                     l7.setText(arr[i][0]);
                    l8.setText(arr[i][1]);
                    l9.setText(arr[i][2]);
                    l10.setText(arr[i][3]);
                    l11.setText(arr[i][4]);

                 }
            }
        });
        b2.setOnAction(new EventHandler<ActionEvent>(){
            @Override
            public void handle(ActionEvent e)
            {
                 i++;
        t2.setText(arr[i][0]);
        t3.setText(arr[i][1]);
        t5.setText(arr[i][2]);
            t4.setText(arr[i][3]);
        t6.setText(arr[i][4]);
                l7.setText(arr[i][0]);
                   l8.setText(arr[i][1]);
                   l9.setText(arr[i][2]);
                   l10.setText(arr[i][3]);
                   l11.setText(arr[i][4]);


            }
        });
        primaryStage.setTitle("STUDENTS INFO");
        primaryStage.setScene(scene);
        primaryStage.show();
    }

    /**
     * @param args the command line arguments
```

```
     */
    public static void main(String[] args) {
        launch(args);
    }

}
```

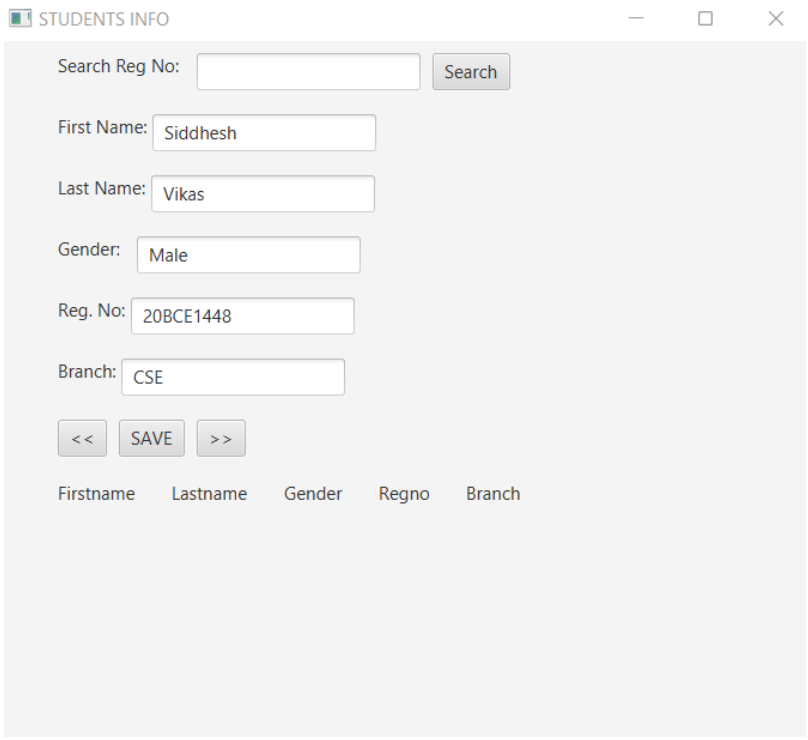
Conn.java

```
package javafxstu;


import java.sql.*;

public class Conn{
    Connection c;

    public Conn(){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            c
=DriverManager.getConnection("jdbc:mysql://localhost:3306/patri","root","UtcL6
64+");




        }catch(Exception e){
            System.out.println(e);
        }

    }
}
```

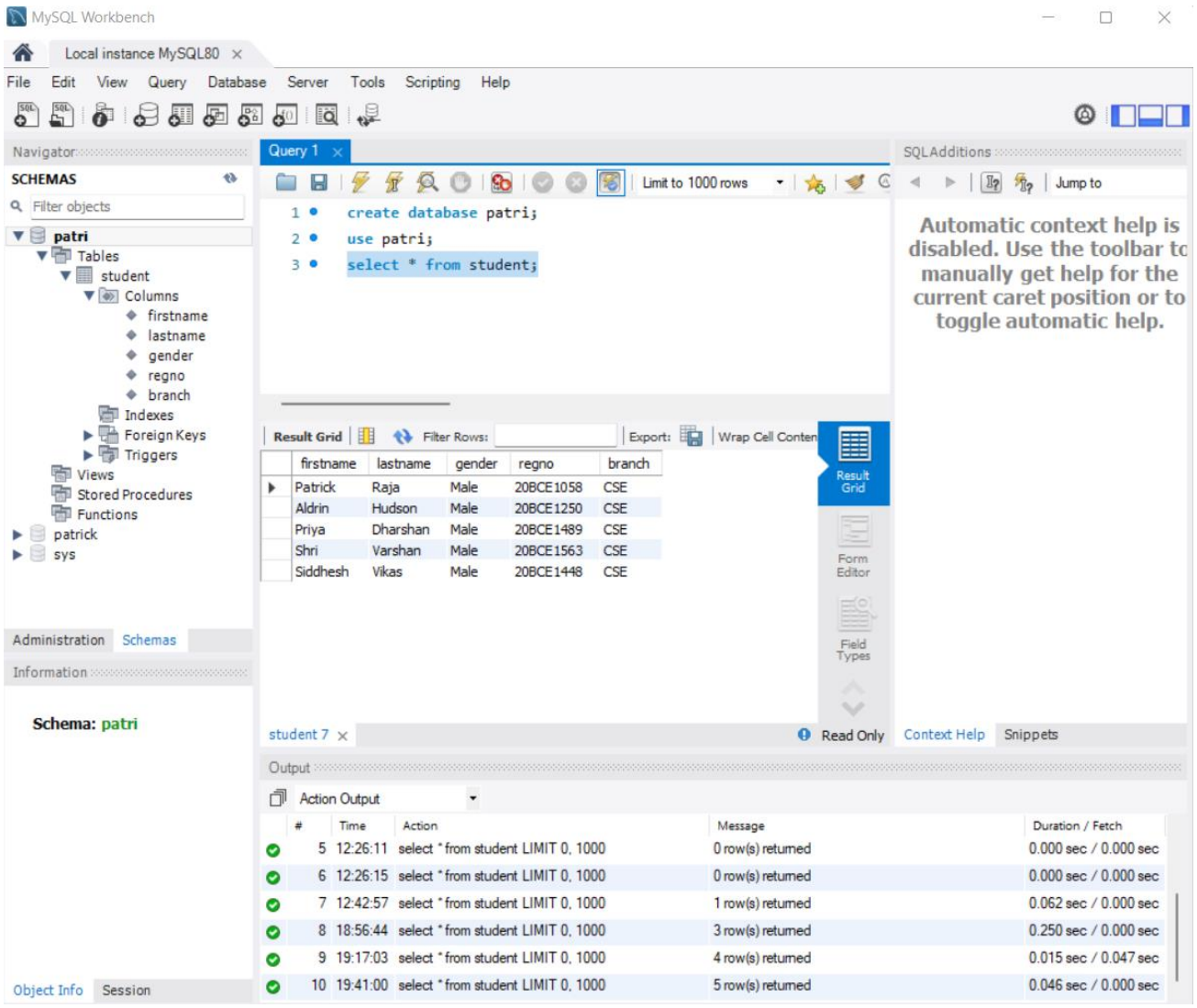
OUTPUT:



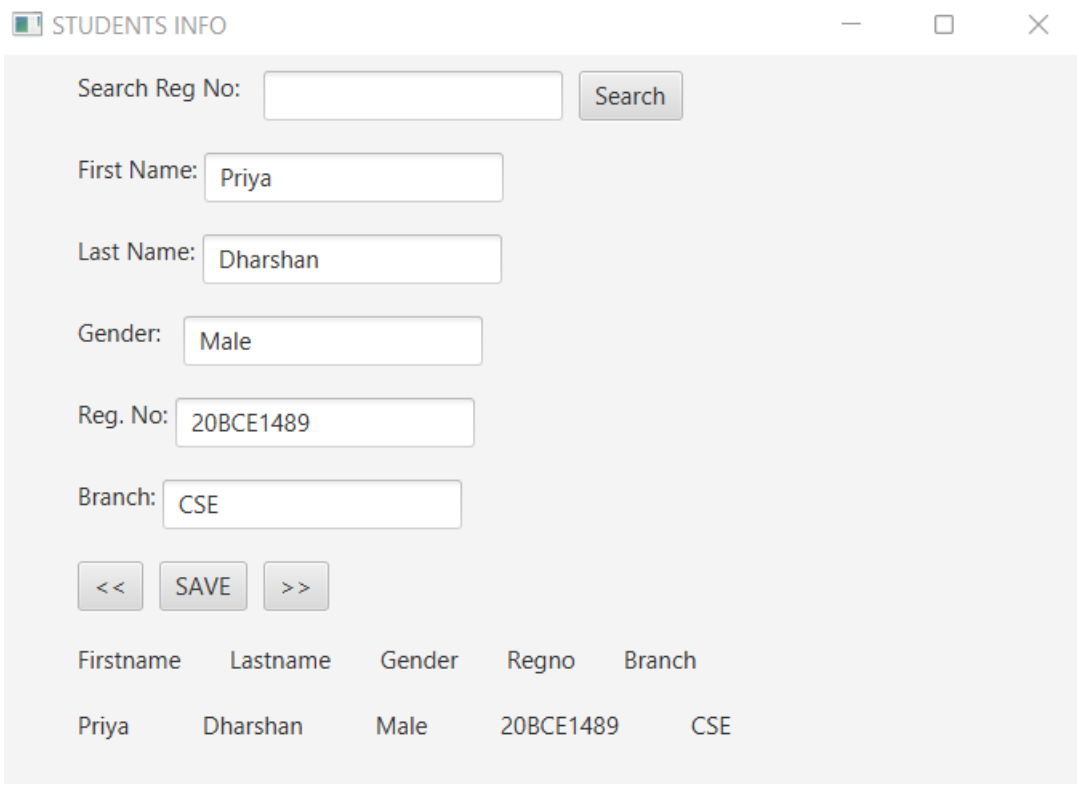
INSERTING A VALUE:


STUDENTS INFO
Search Reg No:
Search
First Name:
Siddhesh
Last Name:
Vikas
Gender:
Male
Reg. No:
20BCE1448
Branch:
CSE
<<
SAVE
>>
Firstname
Lastname
Gender
Regno
Branch

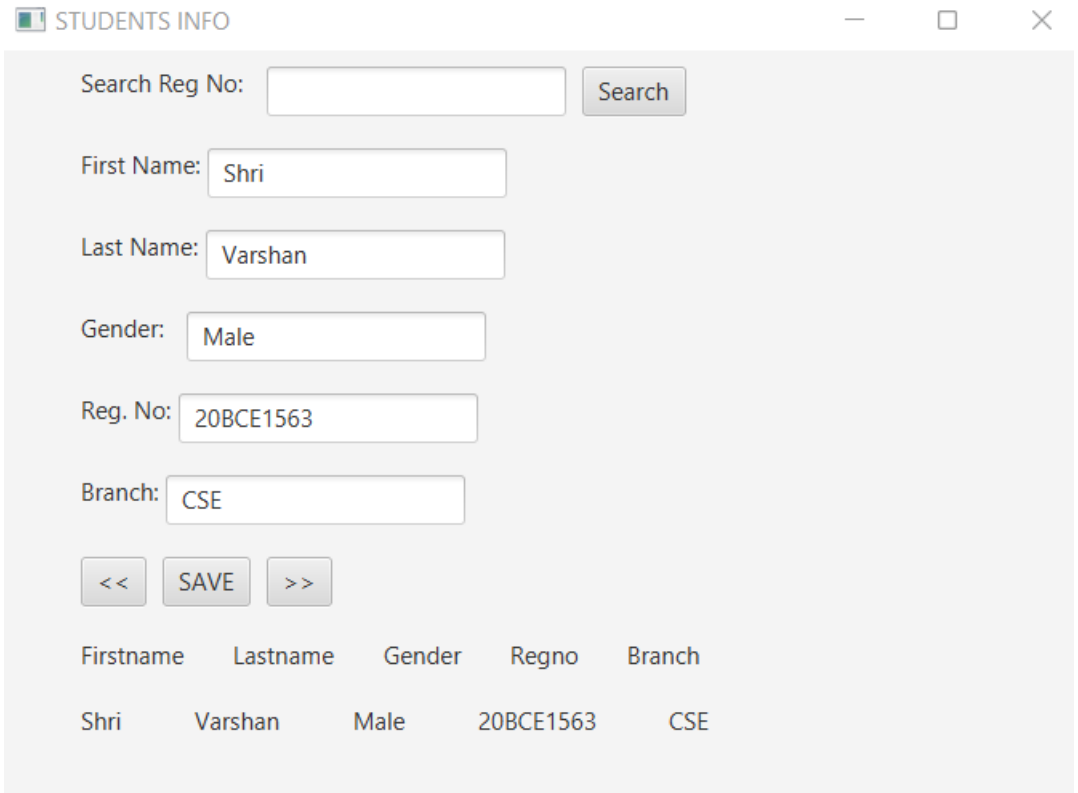
DATABASE:



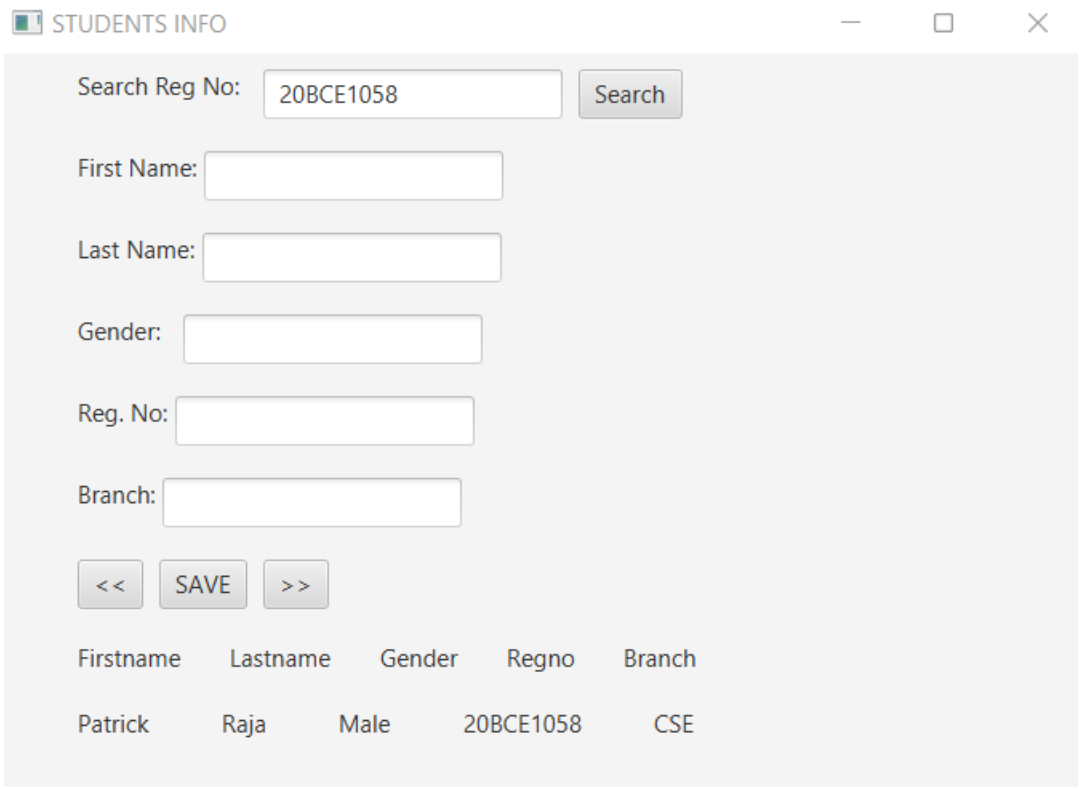
PREVIOUS DATA:



NEXT DATA:



SEARCH DATA:


STUDENTS INFO
Search Reg No:
20BCE1058
Search
First Name:
Last Name:
Gender:
Reg. No:
Branch:
<<
SAVE
>>
Firstname
Lastname
Gender
Regno
Branch
Patrick
Raja
Male
20BCE1058
CSE