

Computer Science

22.2

Module code: SE101.3

Module name: Object Oriented Programming in Java

Assignment: General Assignment

INDEX NO : 28973 NAME : Nirmana K.A.S.

**(01)**

public class Assingment {

public static void main(String[] args) {

System.out.println("My Name is K.A.S.Nirmana" );

}

}

**(02)**

import java.util.Scanner;

public class Assingment {

public static void main(String[] args) {

int n1;

int n2;

int n3;

Scanner scanner = new Scanner(System.in);

System.out.println("Enter First Integer :");

int n1 = scanner.nextInt();

System.out.println("Enter Second Integer :");

int n2 = scanner.nextInt();

System.out.println("Enter Third Integer :");

int n3 = scanner.nextInt();

int product = n1\*n2\*n3;

System.out.println("The Product is : "+ product);

scanner.close();

}

}

**(03)**

import java.util.Scanner;

public class Assingment {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the Fahrenheit value : ");

double fahrenheit = scanner.nextDouble();

double celsius = (fahrenheit - 32) \* 5 / 9;

System.out.println("The Celsius equivalent is: " + celsius + " degrees Celsius");

scanner.close();

}

}

**(04)**

import java.util.Scanner;

public class Assingment {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int n1;

int n2;

System.out.println("Enter three integers: ");

int n1 = scanner.nextInt();

int n2 = scanner.nextInt();

int n3 = scanner.nextInt();

int sum = n1 + n2 + n3;

double average = (double) sum / 3;

int product = n1 \* n2 \* n3;

int smallest;

if (num1 <= n2 && n1 <= n3) {

smallest = n1;

} else if (num2 <= n1 && n2 <= n3) {

smallest = n2;

} else {

smallest = n3;

}

int largest;

if (num1 >= n2 && n1 >= n3) {

largest = n1;

} else if (n2 >= n1 && n2 >= n3) {

largest = n2;

} else {

largest = num3;

}

System.out.println("Sum: " + sum);

System.out.println("Average: " + average);

System.out.println("Product: " + product);

System.out.println("Smallest: " + smallest);

System.out.println("Largest: " + largest);

scanner.close();

}

}

int n3;

System.out.println("Sum: " + sum);

System.out.println("Average: " + average);

System.out.println("Product: " + product);

System.out.println("Smallest: " + smallest);

System.out.println("Largest: " + largest);

scanner.close();

}

}

**(05)**

import java.util.Scanner;

public class Assingment {

public static void main(String[] args) {

int marks = 0;

int total = 0;

int increment = 0;

int count = 0;

int[] array = new int[20];

float average;

Scanner obj = new Scanner(System.in);

while (marks != -1 && increment < 20) {

m = obj.nextInt();

if (marks != -1) {

array[increment] = marks;

increment ++;

count = increment;

}

}

for (int x = 0; x < count; x++) {

total = total + array[x];

}

average = total / count;

System.out.println(“Average: ” +average );

}

}

(**06)**

public class Date {

private int month;

private int day;

private int year;

public Date(int month, int day, int year) {

this.month = month;

this.day = day;

this.year = year;

}

public int getMonth() {

return month;

}

public void setMonth(int month) {

this.month = month;

}

public int getDay() {

return day;

}

public void setDay(int day) {

this.day = day;

}

public int getYear() {

return year;

}

public void setYear(int year) {

this.year = year;

}

public void displayDate() {

System.out.println(month + "/" + day + "/" + year);

}

}

public int getYear() {

return year;

}

public void setYear(int year) {

this.year = year;

}

public void displayDate() {

System.out.println(month + "/" + day + "/" + year);

}

}

public class DateTest {

public static void main(String[] args) {

Date date = new Date(7, 30, 2023);

System.out.print("Initial date: ");

date.displayDate();

date.setMonth(9);

date.setDay(15);

date.setYear(2023);

System.out.print("Updated date: ");

date.displayDate();

}

}

(07)

public class Item {

private int location;

private String description;

public Item(int location, String description) {

this.location = location;

this.description = description;

}

public int getLocation() {

return location;

}

public void setLocation(int location) {

this.location = location;

}

public String getDescription() {

return description;

}

public void setDescription(String description) {

this.description = description;

}

}

public class Monster extends Item {

public Monster(int location, String description) {

super(location, description);

}

}

public class Monster extends Item {

public Monster(int location, String description) {

super(location, description);

}

}

public class Main {

public static void main(String[] args) {

Item item = new Item(1, "Potion");

System.out.println("Item description: " + item.getDescription());

System.out.println("Item location: " + item.getLocation());

item.setLocation(2);

item.setDescription("Health Kit");

System.out.println("Updated item description: " + item.getDescription());

System.out.println("Updated item location: " + item.getLocation());

Monster monster = new Monster(3, "Dragon");

System.out.println("Monster description: " + monster.getDescription());

System.out.println("Monster location: " + monster.getLocation());

monster.setLocation(4);

monster.setDescription("Giant Spider");

System.out.println("Updated monster description: " + monster.getDescription());

System.out.println("Updated monster location: " + monster.getLocation());

}

}

(08)

public class SavingsAccount {

private static double annualInterestRate;

private double savingsBalance;

public SavingsAccount(double savingsBalance) {

this.savingsBalance = savingsBalance;

}

public double getSavingsBalance() {

return savingsBalance;

}

public void calculateMonthlyInterest() {

double monthlyInterest = (savingsBalance \* annualInterestRate) / 12;

savingsBalance += monthlyInterest;

}

public static void modifyInterestRate(double newInterestRate) {

annualInterestRate = newInterestRate;

}

}

public class SavingsAccountTest {

public static void main(String[] args) {

SavingsAccount saver1 = new SavingsAccount(2000.0);

SavingsAccount saver2 = new SavingsAccount(3000.0);

SavingsAccount.modifyInterestRate(0.04);

// Calculate monthly interest and print new balances

saver1.calculateMonthlyInterest();

saver2.calculateMonthlyInterest();

System.out.println("Month 1 - Saver1 Balance: $" + saver1.getSavingsBalance());

System.out.println("Month 1 - Saver2 Balance: $" + saver2.getSavingsBalance());

// Set annualInterestRate to 5%

SavingsAccount.modifyInterestRate(0.05);

// Calculate next month's interest and print new balances

saver1.calculateMonthlyInterest();

saver2.calculateMonthlyInterest();

System.out.println("Month 2 - Saver1 Balance: $" + saver1.getSavingsBalance());

System.out.println("Month 2 - Saver2 Balance: $" + saver2.getSavingsBalance());

}

}

public class SavingsAccountTest {

public static void main(String[] args) {

SavingsAccount saver1 = new SavingsAccount(2000.0);

SavingsAccount saver2 = new SavingsAccount(3000.0);

SavingsAccount.modifyInterestRate(0.04);

saver1.calculateMonthlyInterest();

saver2.calculateMonthlyInterest();

System.out.println("Month 1 - Saver1 Balance: $" + saver1.getSavingsBalance());

System.out.println("Month 1 - Saver2 Balance: $" + saver2.getSavingsBalance());

SavingsAccount.modifyInterestRate(0.05);

saver1.calculateMonthlyInterest();

saver2.calculateMonthlyInterest();

System.out.println("Month 2 - Saver1 Balance: $" + saver1.getSavingsBalance());

System.out.println("Month 2 - Saver2 Balance: $" + saver2.getSavingsBalance());

}

}

(09)

class Car {

int speed;

double regularPrice;

String color;

public Car(int speed, double regularPrice, String color) {

this.speed = speed;

this.regularPrice = regularPrice;

this.color = color;

}

double getSalePrice() {

return regularPrice;

}

}

class Truck extends Car {

int weight;

public Truck(int speed, double regularPrice, String color, int weight) {

super(speed, regularPrice, color);

this.weight = weight;

}

@Override

double getSalePrice() {

if (weight > 2000) {

return regularPrice \* 0.9; // 10% discount

} else {

return regularPrice \* 0.8; // 20% discount

}

}

}

class Ford extends Car {

int year;

int manufacturerDiscount;

public Ford(int speed, double regularPrice, String color, int year, int manufacturerDiscount) {

super(speed, regularPrice, color);

this.year = year;

this.manufacturerDiscount = manufacturerDiscount;

}

@Override

double getSalePrice() {

return super.getSalePrice() - manufacturerDiscount;

}

}

class Sedan extends Car {

int length;

public Sedan(int speed, double regularPrice, String color, int length) {

super(speed, regularPrice, color);

this.length = length;

}

@Override

double getSalePrice() {

if (length > 20) {

return super.getSalePrice() \* 0.95; // 5% discount

} else {

return super.getSalePrice() \* 0.9; // 10% discount

}

}

}

public class MyOwnAutoShop {

public static void main(String[] args) {

// Create an instance of Sedan class

Sedan sedan = new Sedan(150, 20000, "Red", 18);

// Create two instances of Ford class

Ford ford1 = new Ford(180, 25000, "Blue", 2019, 2000);

Ford ford2 = new Ford(200, 30000, "Silver", 2020, 2500);

// Create an instance of Car class

Car car = new Car(120, 15000, "Green");

// Display the sale prices of all instances

System.out.println("Sedan sale price: $" + sedan.getSalePrice());

System.out.println("Ford 1 sale price: $" + ford1.getSalePrice());

System.out.println("Ford 2 sale price: $" + ford2.getSalePrice());

System.out.println("Car sale price: $" + car.getSalePrice());

}

}

double getSalePrice() {

if (weight > 2000) {

return regularPrice \* 0.9;

} else {

return regularPrice \* 0.8;

}

}

}

class Ford extends Car {

int year;

int manufacturerDiscount;

public Ford(int speed, double regularPrice, String color, int year, int manufacturerDiscount) {

super(speed, regularPrice, color);

this.year = year;

this.manufacturerDiscount = manufacturerDiscount;

}

double getSalePrice() {

return super.getSalePrice() - manufacturerDiscount;

}

}

class Sedan extends Car {

int length;

public Sedan(int speed, double regularPrice, String color, int length) {

super(speed, regularPrice, color);

this.length = length;

}

@Override

double getSalePrice() {

if (length > 20) {

return super.getSalePrice() \* 0.95; // 5% discount

} else {

return super.getSalePrice() \* 0.9; // 10% discount

}

}

}

public class MyOwnAutoShop {

public static void main(String[] args) {

// Create an instance of Sedan class

Sedan sedan = new Sedan(150, 20000, "Red", 18);

// Create two instances of Ford class

Ford ford1 = new Ford(180, 25000, "Blue", 2019, 2000);

Ford ford2 = new Ford(200, 30000, "Silver", 2020, 2500);

// Create an instance of Car class

Car car = new Car(120, 15000, "Green");

// Display the sale prices of all instances

System.out.println("Sedan sale price: $" + sedan.getSalePrice());

System.out.println("Ford 1 sale price: $" + ford1.getSalePrice());

System.out.println("Ford 2 sale price: $" + ford2.getSalePrice());

System.out.println("Car sale price: $" + car.getSalePrice());

}

}

class Sedan extends Car {

int length;

public Sedan(int speed, double regularPrice, String color, int length) {

super(speed, regularPrice, color);

this.length = length;

}

double getSalePrice() {

if (length > 20) {

return super.getSalePrice() \* 0.95;

} else {

return super.getSalePrice() \* 0.9;

}

}

}

public class MyOwnAutoShop {

public static void main(String[] args) {

Sedan sedan = new Sedan(150, 20000, "Red", 18);

Ford ford1 = new Ford(180, 25000, "Blue", 2019, 2000);

Ford ford2 = new Ford(200, 30000, "Silver", 2020, 2500);

Car car = new Car(120, 15000, "Green");

System.out.println("Sedan sale price: $" + sedan.getSalePrice());

System.out.println("Ford 1 sale price: $" + ford1.getSalePrice());

System.out.println("Ford 2 sale price: $" + ford2.getSalePrice());

System.out.println("Car sale price: $" + car.getSalePrice());

}

}

System.out.println("Sedan sale price: $" + sedan.getSalePrice());

System.out.println("Ford 1 sale price: $" + ford1.getSalePrice());

System.out.println("Ford 2 sale price: $" + ford2.getSalePrice());

System.out.println("Car sale price: $" + car.getSalePrice());

}

}

(10)

class Shape {

void draw() {

System.out.println("Drawing a shape");

}

void erase() {

System.out.println("Erasing a shape");

}

}

class Circle extends Shape {

void draw() {

System.out.println("Drawing a circle");

}

void erase() {

System.out.println("Erasing a circle");

}

}

class Triangle extends Shape {

void draw() {

System.out.println("Drawing a triangle");

}

@Override

void erase() {

System.out.println("Erasing a triangle");

}

}

class Square extends Shape {

@Override

void draw() {

System.out.println("Drawing a square");

}

@Override

void erase() {

System.out.println("Erasing a square");

}

}

public class PolymorphismExample {

public static void main(String[] args) {

Shape circle = new Circle();

Shape triangle = new Triangle();

Shape square = new Square();

drawAndErase(circle);

drawAndErase(triangle);

drawAndErase(square);

}

static void drawAndErase(Shape shape) {

shape.draw();

shape.erase();

}

}

void erase() {

System.out.println("Erasing a triangle");

}

}

class Square extends Shape {

void draw() {

System.out.println("Drawing a square");

}

void erase() {

System.out.println("Erasing a square");

}

}

public class PolymorphismExample {

public static void main(String[] args) {

Shape circle = new Circle();

Shape triangle = new Triangle();

Shape square = new Square();

drawAndErase(circle);

drawAndErase(triangle);

drawAndErase(square);

}

static void drawAndErase(Shape shape) {

shape.draw();

shape.erase();

}

}

static void drawAndErase(Shape shape) {

shape.draw();

shape.erase();

}

}

(11)

interface A {

void meth1();

void meth2();

}

class MyClass implements A {

public void meth1() {

System.out.println("Method 1 implementation in MyClass.");

}

public void meth2() {

System.out.println("Method 2 implementation in MyClass.");

}

}

interface B {

void methodB();

}

interface C {

void methodC();

}

class MyClass2 implements B, C {

public void methodB() {

System.out.println("Method B implementation in MyClass2.");

}

public void methodC() {

System.out.println("Method C implementation in MyClass2.");

}

}

interface Test {

int square(int num);

}

class Arithmetic implements Test {

public int square(int num) {

return num \* num;

}

}

class ToTestInt {

public static void main(String[] args) {

Arithmetic arithmeticObj = new Arithmetic();

int number = 5;

int result = arithmeticObj.square(number);

System.out.println("Square of " + number + " is: " + result);

}

}

(12)

import java.util.Scanner;

public class NegativeArraySizeCheck {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

try {

System.out.print("Enter the size of the array: ");

int size = scanner.nextInt();

if (size < 0) {

throw new NegativeArraySizeException();

}

int[] array = new int[size];

System.out.println("Array of size " + size + " created successfully.");

} catch (NegativeArraySizeException ex) {

System.out.println("Error: Array size cannot be negative.");

} catch (Exception ex) {

System.out.println("An unexpected error occurred.");

} finally {

scanner.close();

}

}

static class NegativeArraySizeException extends Exception {

}

}

import java.util.Scanner;

public class MultipleCatchExample {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

try {

System.out.print("Enter a number: ");

int num = Integer.parseInt(scanner.nextLine());

int result = 10 / num;

System.out.println("Result: " + result);

} catch (ArithmeticException ex) {

System.out.println("Error: Cannot divide by zero.");

} catch (NumberFormatException ex) {

System.out.println("Error: Invalid number format.");

} catch (Exception ex) {

System.out.println("An unexpected error occurred.");

} finally {

scanner.close();

}

}

}

public class ExceptionPrecedenceExample {

public static void main(String[] args) {

try {

throw new DerivedException();

} catch (DerivedException ex) {

System.out.println("Caught DerivedException: " + ex.getMessage());

} catch (BaseException ex) {

System.out.println("Caught BaseException: " + ex.getMessage());

}

}

static class BaseException extends Exception {

@Override

public String getMessage() {

return "This is a BaseException.";

}

}

static class DerivedException extends BaseException {

@Override

public String getMessage() {

return "This is a DerivedException.";

}

}

}

import java.io.FileReader;

import java.io.IOException;

public class TryCatchFinallyExample {

public static void main(String[] args) {

try {

FileReader fileReader = new FileReader("example.txt");

int data = fileReader.read();

System.out.println("Read data: " + data);

} catch (IOException ex) {

System.out.println("Error reading file: " + ex.getMessage());

} finally {

System.out.println("Finally block executed.");

}

}

}

import java.io.FileNotFoundException;

import java.io.FileReader;

public class ThrowsExample {

public static void main(String[] args) {

try {

readDataFromFile("example.txt");

} catch (FileNotFoundException ex) {

System.out.println("File not found: " + ex.getMessage());

}

}

static void readDataFromFile(String filename) throws FileNotFoundException {

FileReader fileReader = new FileReader(filename);

}

}

public class CustomExceptionExample {

public static void main(String[] args) {

try {

validateAge(15);

} catch (InvalidAgeException ex) {

System.out.println("Invalid Age: " + ex.getMessage());

}

}

static void validateAge(int age) throws InvalidAgeException {

if (age < 18) {

throw new InvalidAgeException("Age must be at least 18 years.");

}

System.out.println("Valid Age: " + age);

}

static class InvalidAgeException extends Exception {

public InvalidAgeException(String message) {

super(message);

}

}

}

(13)

class MyRunnable implements Runnable {

public void run() {

try {

for (int i = 1; i <= 5; i++) {

System.out.println("Child Thread: " + i);

Thread.sleep(500);

}

} catch (InterruptedException e) {

System.out.println("Child Thread interrupted.");

}

}

}

public class ThreadCreationUsingRunnable {

public static void main(String[] args) {

MyRunnable runnable = new MyRunnable();

Thread thread = new Thread(runnable);

thread.start();

try {

for (int i = 1; i <= 5; i++) {

System.out.println("Main Thread: " + i);

Thread.sleep(500);

}

} catch (InterruptedException e) {

System.out.println("Main Thread interrupted.");

}

}

}

class MyThread extends Thread {

public MyThread() {

super();

start();

}

public void run() {

try {

for (int i = 1; i <= 5; i++) {

System.out.println("Child Thread: " + i);

Thread.sleep(500);

}

} catch (InterruptedException e) {

System.out.println("Child Thread interrupted.");

}

}

}

public class ThreadCreationUsingMyThread {

public static void main(String[] args) {

new MyThread();

try {

for (int i = 1; i <= 5; i++) {

System.out.println("Main Thread: " + i);

Thread.sleep(500);

}

} catch (InterruptedException e) {

System.out.println("Main Thread interrupted.");

}

}

}

(14)

Frame

package com.mycompany.fram01;

public class Fram01 {

public static void main(String[] args)

{

JQ14 c = new JQ14();

c.show();

}

}

Form

<?xml version="1.0" encoding="UTF-8" ?>

<Form version="1.3" maxVersion="1.9" type="org.netbeans.modules.form.forminfo.JFrameFormInfo">

<Properties>

<Property name="defaultCloseOperation" type="int" value="3"/>

</Properties>

<SyntheticProperties>

<SyntheticProperty name="formSizePolicy" type="int" value="1"/>

<SyntheticProperty name="generateCenter" type="boolean" value="false"/>

</SyntheticProperties>

<AuxValues>

<AuxValue name="FormSettings\_autoResourcing" type="java.lang.Integer" value="0"/>

<AuxValue name="FormSettings\_autoSetComponentName" type="java.lang.Boolean" value="false"/>

<AuxValue name="FormSettings\_generateFQN" type="java.lang.Boolean" value="true"/>

<AuxValue name="FormSettings\_generateMnemonicsCode" type="java.lang.Boolean" value="false"/>

<AuxValue name="FormSettings\_i18nAutoMode" type="java.lang.Boolean" value="false"/>

<AuxValue name="FormSettings\_layoutCodeTarget" type="java.lang.Integer" value="1"/>

<AuxValue name="FormSettings\_listenerGenerationStyle" type="java.lang.Integer" value="0"/>

<AuxValue name="FormSettings\_variablesLocal" type="java.lang.Boolean" value="false"/>

<AuxValue name="FormSettings\_variablesModifier" type="java.lang.Integer" value="2"/>

</AuxValues>

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<Group type="102" attributes="0">

<Group type="103" groupAlignment="0" attributes="0">

<Group type="102" attributes="0">

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<Group type="103" groupAlignment="0" attributes="0">

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<Group type="102" alignment="0" attributes="0">

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<EmptySpace min="-2" pref="31" max="-2" attributes="0"/>

<Component id="jRadioButton1" min="-2" pref="85" max="-2" attributes="0"/>

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<Group type="103" groupAlignment="0" attributes="0">

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</Group>

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</Group>

</Group>

<EmptySpace min="-2" pref="36" max="-2" attributes="0"/>

</Group>

</Group>

</DimensionLayout>

<DimensionLayout dim="1">

<Group type="103" groupAlignment="0" attributes="0">

<Group type="102" alignment="0" attributes="0">

<EmptySpace min="-2" pref="17" max="-2" attributes="0"/>

<Component id="jLabel1" min="-2" max="-2" attributes="0"/>

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<Group type="102" attributes="0">

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<Component id="jRadioButton2" alignment="3" min="-2" max="-2" attributes="0"/>

<Component id="jButton1" alignment="3" min="-2" pref="33" max="-2" attributes="0"/>

</Group>

</Group>

<Group type="102" alignment="0" attributes="0">

<EmptySpace max="-2" attributes="0"/>

<Component id="jLayeredPane1" min="-2" max="-2" attributes="0"/>

</Group>

</Group>

<EmptySpace type="unrelated" max="-2" attributes="0"/>

<Component id="jLabel2" min="-2" max="-2" attributes="0"/>

<EmptySpace pref="66" max="32767" attributes="0"/>

</Group>

</Group>

</DimensionLayout>

</Layout>

<SubComponents>

<Component class="javax.swing.JLabel" name="jLabel1">

<Properties>

<Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">

<Font name="Segoe UI" size="14" style="0"/>

</Property>

<Property name="text" type="java.lang.String" value="Applet"/>

</Properties>

</Component>

<Component class="javax.swing.JTextField" name="jTextField1">

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jTextField1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JRadioButton" name="jRadioButton1">

<Properties>

<Property name="text" type="java.lang.String" value="to Celcius"/>

</Properties>

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jRadioButton1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JRadioButton" name="jRadioButton2">

<Properties>

<Property name="text" type="java.lang.String" value="to Kelvin"/>

</Properties>

</Component>

<Component class="javax.swing.JButton" name="jButton1">

<Properties>

<Property name="text" type="java.lang.String" value="Show Result"/>

</Properties>

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jButton1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JLabel" name="jLabel2">

<Properties>

<Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">

<Font name="Segoe UI" size="13" style="0"/>

</Property>

<Property name="text" type="java.lang.String" value="Enter Farenhiet, Choos an option to convert and click show reuslt"/>

</Properties>

</Component>

<Container class="javax.swing.JLayeredPane" name="jLayeredPane1">

<Layout>

<DimensionLayout dim="0">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="100" max="32767" attributes="0"/>

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</DimensionLayout>

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<Group type="103" groupAlignment="0" attributes="0">

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</DimensionLayout>

</Layout>

</Container>

</SubComponents>

</Form>

<Layout>

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<Group type="103" groupAlignment="0" attributes="0">

<Group type="102" attributes="0">

<EmptySpace min="-2" pref="17" max="-2" attributes="0"/>

<Group type="103" groupAlignment="0" attributes="0">

<Component id="jLabel1" min="-2" max="-2" attributes="0"/>

<Group type="102" alignment="0" attributes="0">

<EmptySpace min="-2" pref="11" max="-2" attributes="0"/>

<Component id="jTextField1" min="-2" pref="130" max="-2" attributes="0"/>

<EmptySpace min="-2" pref="31" max="-2" attributes="0"/>

<Component id="jRadioButton1" min="-2" pref="85" max="-2" attributes="0"/>

<EmptySpace type="separate" max="-2" attributes="0"/>

<Component id="jRadioButton2" min="-2" max="-2" attributes="0"/>

<EmptySpace max="32767" attributes="0"/>

<Component id="jButton1" min="-2" pref="110" max="-2" attributes="0"/>

</Group>

</Group>

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<Group type="102" alignment="0" attributes="0">

<EmptySpace min="-2" pref="120" max="-2" attributes="0"/>

<Group type="103" groupAlignment="0" attributes="0">

<Component id="jLabel2" min="-2" pref="401" max="-2" attributes="0"/>

<Component id="jLayeredPane1" min="-2" max="-2" attributes="0"/>

</Group>

<EmptySpace min="0" pref="106" max="32767" attributes="0"/>

</Group>

</Group>

<EmptySpace min="-2" pref="36" max="-2" attributes="0"/>

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</Group>

</DimensionLayout>

<DimensionLayout dim="1">

<Group type="103" groupAlignment="0" attributes="0">

<Group type="102" alignment="0" attributes="0">

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<Component id="jLabel1" min="-2" max="-2" attributes="0"/>

<Group type="103" groupAlignment="0" attributes="0">

<Group type="102" attributes="0">

<EmptySpace min="-2" pref="39" max="-2" attributes="0"/>

<Group type="103" groupAlignment="3" attributes="0">

<Component id="jTextField1" alignment="3" min="-2" pref="33" max="-2" attributes="0"/>

<Component id="jRadioButton1" alignment="3" min="-2" max="-2" attributes="0"/>

<Component id="jRadioButton2" alignment="3" min="-2" max="-2" attributes="0"/>

<Component id="jButton1" alignment="3" min="-2" pref="33" max="-2" attributes="0"/>

</Group>

</Group>

<Group type="102" alignment="0" attributes="0">

<EmptySpace max="-2" attributes="0"/>

<Component id="jLayeredPane1" min="-2" max="-2" attributes="0"/>

</Group>

</Group>

<EmptySpace type="unrelated" max="-2" attributes="0"/>

<Component id="jLabel2" min="-2" max="-2" attributes="0"/>

<EmptySpace pref="66" max="32767" attributes="0"/>

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</DimensionLayout>

</Layout>

<SubComponents>

<Component class="javax.swing.JLabel" name="jLabel1">

<Properties>

<Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">

<Font name="Segoe UI" size="14" style="0"/>

</Property>

<Property name="text" type="java.lang.String" value="Applet"/>

</Properties>

</Component>

<Component class="javax.swing.JTextField" name="jTextField1">

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jTextField1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JRadioButton" name="jRadioButton1">

<Properties>

<Property name="text" type="java.lang.String" value="to Celcius"/>

</Properties>

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jRadioButton1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JRadioButton" name="jRadioButton2">

<Properties>

<Property name="text" type="java.lang.String" value="to Kelvin"/>

</Properties>

</Component>

<Component class="javax.swing.JButton" name="jButton1">

<Properties>

<Property name="text" type="java.lang.String" value="Show Result"/>

</Properties>

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jButton1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JLabel" name="jLabel2">

<Properties>

<Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">

<Font name="Segoe UI" size="13" style="0"/>

</Property>

<Property name="text" type="java.lang.String" value="Enter Farenhiet, Choos an option to convert and click show reuslt"/>

</Properties>

</Component>

<Container class="javax.swing.JLayeredPane" name="jLayeredPane1">

<Layout>

<DimensionLayout dim="0">

<Group type="103" groupAlignment="0" attributes="0">

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</DimensionLayout>

</Layout>

</Container>

</SubComponents>

</Form>

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</Group>

</DimensionLayout>

<DimensionLayout dim="1">

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<Group type="102" alignment="0" attributes="0">

<EmptySpace min="-2" pref="17" max="-2" attributes="0"/>

<Component id="jLabel1" min="-2" max="-2" attributes="0"/>

<Group type="103" groupAlignment="0" attributes="0">

<Group type="102" attributes="0">

<EmptySpace min="-2" pref="39" max="-2" attributes="0"/>

<Group type="103" groupAlignment="3" attributes="0">

<Component id="jTextField1" alignment="3" min="-2" pref="33" max="-2" attributes="0"/>

<Component id="jRadioButton1" alignment="3" min="-2" max="-2" attributes="0"/>

<Component id="jRadioButton2" alignment="3" min="-2" max="-2" attributes="0"/>

<Component id="jButton1" alignment="3" min="-2" pref="33" max="-2" attributes="0"/>

</Group>

</Group>

<Group type="102" alignment="0" attributes="0">

<EmptySpace max="-2" attributes="0"/>

<Component id="jLayeredPane1" min="-2" max="-2" attributes="0"/>

</Group>

</Group>

<EmptySpace type="unrelated" max="-2" attributes="0"/>

<Component id="jLabel2" min="-2" max="-2" attributes="0"/>

<EmptySpace pref="66" max="32767" attributes="0"/>

</Group>

</Group>

</DimensionLayout>

</Layout>

<SubComponents>

<Component class="javax.swing.JLabel" name="jLabel1">

<Properties>

<Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">

<Font name="Segoe UI" size="14" style="0"/>

</Property>

<Property name="text" type="java.lang.String" value="Applet"/>

</Properties>

</Component>

<Component class="javax.swing.JTextField" name="jTextField1">

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jTextField1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JRadioButton" name="jRadioButton1">

<Properties>

<Property name="text" type="java.lang.String" value="to Celcius"/>

</Properties>

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jRadioButton1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JRadioButton" name="jRadioButton2">

<Properties>

<Property name="text" type="java.lang.String" value="to Kelvin"/>

</Properties>

</Component>

<Component class="javax.swing.JButton" name="jButton1">

<Properties>

<Property name="text" type="java.lang.String" value="Show Result"/>

</Properties>

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jButton1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JLabel" name="jLabel2">

<Properties>

<Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">

<Font name="Segoe UI" size="13" style="0"/>

</Property>

<Property name="text" type="java.lang.String" value="Enter Farenhiet, Choos an option to convert and click show reuslt"/>

</Properties>

</Component>

<Container class="javax.swing.JLayeredPane" name="jLayeredPane1">

<Layout>

<DimensionLayout dim="0">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="100" max="32767" attributes="0"/>

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</DimensionLayout>

<DimensionLayout dim="1">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="100" max="32767" attributes="0"/>

</Group>

</DimensionLayout>

</Layout>

</Container>

</SubComponents>

</Form>

</Layout>

<SubComponents>

<Component class="javax.swing.JLabel" name="jLabel1">

<Properties>

<Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">

<Font name="Segoe UI" size="14" style="0"/>

</Property>

<Property name="text" type="java.lang.String" value="Applet"/>

</Properties>

</Component>

<Component class="javax.swing.JTextField" name="jTextField1">

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jTextField1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JRadioButton" name="jRadioButton1">

<Properties>

<Property name="text" type="java.lang.String" value="to Celcius"/>

</Properties>

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jRadioButton1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JRadioButton" name="jRadioButton2">

<Properties>

<Property name="text" type="java.lang.String" value="to Kelvin"/>

</Properties>

</Component>

<Component class="javax.swing.JButton" name="jButton1">

<Properties>

<Property name="text" type="java.lang.String" value="Show Result"/>

</Properties>

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jButton1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JLabel" name="jLabel2">

<Properties>

<Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">

<Font name="Segoe UI" size="13" style="0"/>

</Property>

<Property name="text" type="java.lang.String" value="Enter Farenhiet, Choos an option to convert and click show reuslt"/>

</Properties>

</Component>

<Container class="javax.swing.JLayeredPane" name="jLayeredPane1">

<Layout>

<DimensionLayout dim="0">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="100" max="32767" attributes="0"/>

</Group>

</DimensionLayout>

<DimensionLayout dim="1">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="100" max="32767" attributes="0"/>

</Group>

</DimensionLayout>

</Layout>

</Container>

</SubComponents>

</Form>

<Properties>

<Property name="text" type="java.lang.String" value="Show Result"/>

</Properties>

<Events>

<EventHandler event="actionPerformed" listener="java.awt.event.ActionListener" parameters="java.awt.event.ActionEvent" handler="jButton1ActionPerformed"/>

</Events>

</Component>

<Component class="javax.swing.JLabel" name="jLabel2">

<Properties>

<Property name="font" type="java.awt.Font" editor="org.netbeans.beaninfo.editors.FontEditor">

<Font name="Segoe UI" size="13" style="0"/>

</Property>

<Property name="text" type="java.lang.String" value="Enter Farenhiet, Choos an option to convert and click show reuslt"/>

</Properties>

</Component>

<Container class="javax.swing.JLayeredPane" name="jLayeredPane1">

<Layout>

<DimensionLayout dim="0">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="100" max="32767" attributes="0"/>

</Group>

</DimensionLayout>

<DimensionLayout dim="1">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="100" max="32767" attributes="0"/>

</Group>

</DimensionLayout>

</Layout>

</Container>

</SubComponents>

</Form>

</Container>

</SubComponents>

</Form>

Java

package com.mycompany.fram01;

public class JQ14 extends javax.swing.JFrame {

public JQ14() {

initComponents();

}

@SuppressWarnings("unchecked")

GEN-BEGIN:initComponents

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jButton1 = new javax.swing.JButton();

jLabel2 = new javax.swing.JLabel();

jLayeredPane1 = new javax.swing.JLayeredPane();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 14));

jLabel1.setText("Applet");

jTextField1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jTextField1ActionPerformed(evt);

}

});

jRadioButton1.setText("to Celcius");

jRadioButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jRadioButton1ActionPerformed(evt);

}

});

jRadioButton2.setText("to Kelvin");

jButton1.setText("Show Result");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 13)); // NOI18N

jLabel2.setText("Enter Farenhiet, Choos an option to convert and click show reuslt");

javax.swing.GroupLayout jLayeredPane1Layout = new javax.swing.GroupLayout(jLayeredPane1);

jLayeredPane1.setLayout(jLayeredPane1Layout);

jLayeredPane1Layout.setHorizontalGroup(

jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 100, Short.MAX\_VALUE)

);

jLayeredPane1Layout.setVerticalGroup(

jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 100, Short.MAX\_VALUE)

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(17, 17, 17)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel1)

.addGroup(layout.createSequentialGroup()

.addGap(11, 11, 11)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 130, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(31, 31, 31)

.addComponent(jRadioButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 85, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jRadioButton2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 110, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGroup(layout.createSequentialGroup()

.addGap(120, 120, 120)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 401, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(0, 106, Short.MAX\_VALUE)))

.addGap(36, 36, 36))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(17, 17, 17)

.addComponent(jLabel1)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(39, 39, 39)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jRadioButton1)

.addComponent(jRadioButton2)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jLabel2)

.addContainerGap(66, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>//GEN-END:initComponents

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jTextField1ActionPerformed

// TODO ad1d your handling code here:

}//GEN-LAST:event\_jTextField1ActionPerformed

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jRadioButton1ActionPerformed

// TODO add your handling code here:

}//GEN-LAST:event\_jRadioButton1ActionPerformed

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed

if (!(jRadioButton1.isSelected()) && !(jRadioButton2.isSelected()))

{

jTextField1.setText("Select C or K");

}

if(jRadioButton1.isSelected())

jRadioButton2.setEnabled(false);

if(jRadioButton2.isSelected())

jRadioButton1.setEnabled(false);

try

{

float num = Float.parseFloat(jTextField1.getText());

float r;

if(jRadioButton1.isSelected())

{

r = ((num-32)\*5)/9;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

if(jRadioButton2.isSelected())

{

r = (((num-32)\*5)/9)+273.15f;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

}

catch(NumberFormatException e)

{

jTextField1.setText("Enter a number ");

}

}//GEN-LAST:event\_jButton1ActionPerformed

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

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(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new JQ14().setVisible(true);

}

});

}

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLayeredPane jLayeredPane1;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

jRadioButton1.setText("to Celcius");

jRadioButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jRadioButton1ActionPerformed(evt);

}

});

jRadioButton2.setText("to Kelvin");

jButton1.setText("Show Result");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 13));

jLabel2.setText("Enter Farenhiet, Choos an option to convert and click show reuslt");

javax.swing.GroupLayout jLayeredPane1Layout = new javax.swing.GroupLayout(jLayeredPane1);

jLayeredPane1.setLayout(jLayeredPane1Layout);

jLayeredPane1Layout.setHorizontalGroup(

jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 100, Short.MAX\_VALUE)

);

jLayeredPane1Layout.setVerticalGroup(

jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 100, Short.MAX\_VALUE)

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(17, 17, 17)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel1)

.addGroup(layout.createSequentialGroup()

.addGap(11, 11, 11)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 130, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(31, 31, 31)

.addComponent(jRadioButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 85, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jRadioButton2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 110, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGroup(layout.createSequentialGroup()

.addGap(120, 120, 120)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 401, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(0, 106, Short.MAX\_VALUE)))

.addGap(36, 36, 36))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(17, 17, 17)

.addComponent(jLabel1)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(39, 39, 39)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jRadioButton1)

.addComponent(jRadioButton2)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jLabel2)

.addContainerGap(66, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>//GEN-END:initComponents

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jTextField1ActionPerformed

// TODO ad1d your handling code here:

}//GEN-LAST:event\_jTextField1ActionPerformed

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jRadioButton1ActionPerformed

// TODO add your handling code here:

}//GEN-LAST:event\_jRadioButton1ActionPerformed

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed

if (!(jRadioButton1.isSelected()) && !(jRadioButton2.isSelected()))

{

jTextField1.setText("Select C or K");

}

if(jRadioButton1.isSelected())

jRadioButton2.setEnabled(false);

if(jRadioButton2.isSelected())

jRadioButton1.setEnabled(false);

try

{

float num = Float.parseFloat(jTextField1.getText());

float r;

if(jRadioButton1.isSelected())

{

r = ((num-32)\*5)/9;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

if(jRadioButton2.isSelected())

{

r = (((num-32)\*5)/9)+273.15f;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

}

catch(NumberFormatException e)

{

jTextField1.setText("Enter a number ");

}

}//GEN-LAST:event\_jButton1ActionPerformed

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

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(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new JQ14().setVisible(true);

}

});

}

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLayeredPane jLayeredPane1;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(17, 17, 17)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel1)

.addGroup(layout.createSequentialGroup()

.addGap(11, 11, 11)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 130, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(31, 31, 31)

.addComponent(jRadioButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 85, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jRadioButton2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 110, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGroup(layout.createSequentialGroup()

.addGap(120, 120, 120)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 401, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(0, 106, Short.MAX\_VALUE)))

.addGap(36, 36, 36))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(17, 17, 17)

.addComponent(jLabel1)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(39, 39, 39)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jRadioButton1)

.addComponent(jRadioButton2)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jLabel2)

.addContainerGap(66, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>//GEN-END:initComponents

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jTextField1ActionPerformed

// TODO ad1d your handling code here:

}//GEN-LAST:event\_jTextField1ActionPerformed

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jRadioButton1ActionPerformed

// TODO add your handling code here:

}//GEN-LAST:event\_jRadioButton1ActionPerformed

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed

if (!(jRadioButton1.isSelected()) && !(jRadioButton2.isSelected()))

{

jTextField1.setText("Select C or K");

}

if(jRadioButton1.isSelected())

jRadioButton2.setEnabled(false);

if(jRadioButton2.isSelected())

jRadioButton1.setEnabled(false);

try

{

float num = Float.parseFloat(jTextField1.getText());

float r;

if(jRadioButton1.isSelected())

{

r = ((num-32)\*5)/9;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

if(jRadioButton2.isSelected())

{

r = (((num-32)\*5)/9)+273.15f;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

}

catch(NumberFormatException e)

{

jTextField1.setText("Enter a number ");

}

}//GEN-LAST:event\_jButton1ActionPerformed

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

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(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new JQ14().setVisible(true);

}

});

}

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLayeredPane jLayeredPane1;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

.addGap(0, 106, Short.MAX\_VALUE)))

.addGap(36, 36, 36))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(17, 17, 17)

.addComponent(jLabel1)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(39, 39, 39)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jRadioButton1)

.addComponent(jRadioButton2)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jLabel2)

.addContainerGap(66, Short.MAX\_VALUE))

);

pack();

}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jTextField1ActionPerformed

// TODO ad1d your handling code here:

}//GEN-LAST:event\_jTextField1ActionPerformed

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jRadioButton1ActionPerformed

// TODO add your handling code here:

}//GEN-LAST:event\_jRadioButton1ActionPerformed

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed

if (!(jRadioButton1.isSelected()) && !(jRadioButton2.isSelected()))

{

jTextField1.setText("Select C or K");

}

if(jRadioButton1.isSelected())

jRadioButton2.setEnabled(false);

if(jRadioButton2.isSelected())

jRadioButton1.setEnabled(false);

try

{

float num = Float.parseFloat(jTextField1.getText());

float r;

if(jRadioButton1.isSelected())

{

r = ((num-32)\*5)/9;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

if(jRadioButton2.isSelected())

{

r = (((num-32)\*5)/9)+273.15f;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

}

catch(NumberFormatException e)

{

jTextField1.setText("Enter a number ");

}

}//GEN-LAST:event\_jButton1ActionPerformed

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

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(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new JQ14().setVisible(true);

}

});

}

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLayeredPane jLayeredPane1;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

if (!(jRadioButton1.isSelected()) && !(jRadioButton2.isSelected()))

{

jTextField1.setText("Select C or K");

}

if(jRadioButton1.isSelected())

jRadioButton2.setEnabled(false);

if(jRadioButton2.isSelected())

jRadioButton1.setEnabled(false);

try

{

float num = Float.parseFloat(jTextField1.getText());

float r;

if(jRadioButton1.isSelected())

{

r = ((num-32)\*5)/9;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

if(jRadioButton2.isSelected())

{

r = (((num-32)\*5)/9)+273.15f;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

}

catch(NumberFormatException e)

{

jTextField1.setText("Enter a number ");

}

}//GEN-LAST:event\_jButton1ActionPerformed

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

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(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new JQ14().setVisible(true);

}

});

}

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLayeredPane jLayeredPane1;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

if (!(jRadioButton1.isSelected()) && !(jRadioButton2.isSelected()))

{

jTextField1.setText("Select C or K");

}

if(jRadioButton1.isSelected())

jRadioButton2.setEnabled(false);

if(jRadioButton2.isSelected())

jRadioButton1.setEnabled(false);

try

{

float num = Float.parseFloat(jTextField1.getText());

float r;

if(jRadioButton1.isSelected())

{

r = ((num-32)\*5)/9;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

if(jRadioButton2.isSelected())

{

r = (((num-32)\*5)/9)+273.15f;

String result = String.format("%.2f",r);

jTextField1.setText(result);

}

}

catch(NumberFormatException e)

{

jTextField1.setText("Enter a number ");

}

}//GEN-LAST:event\_jButton1ActionPerformed

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

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(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(JQ14.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new JQ14().setVisible(true);

}

});

}

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLayeredPane jLayeredPane1;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new JQ14().setVisible(true);

}

});

}

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLayeredPane jLayeredPane1;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JTextField jTextField1;

}

(15)

Frame

package com.mycompany.jq15;

public class JQ15 {

public static void main(String[] args)

{

cal c = new cal();

c.show();

}

}

call.java

package com.mycompany.jq15;

public class call extends javax.swing.JFrame {

public call() {

initComponents();

}

@SuppressWarnings("unchecked")

private void initComponents() {

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 400, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 300, Short.MAX\_VALUE)

);

pack();

}

public static void main(String args[]) {

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(call.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(call.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(call.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(call.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new call().setVisible(true);

}

});

}

// Variables declaration - do not modify//GEN-BEGIN:variables

// End of variables declaration//GEN-END:variables

}

call.form

public static void main(String args[]) {

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(call.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(call.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(call.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(call.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new call().setVisible(true);

}

});

}

}

<?xml version="1.0" encoding="UTF-8" ?>

<Form version="1.3" maxVersion="1.9" type="org.netbeans.modules.form.forminfo.JFrameFormInfo">

<Properties>

<Property name="defaultCloseOperation" type="int" value="3"/>

</Properties>

<SyntheticProperties>

<SyntheticProperty name="formSizePolicy" type="int" value="1"/>

<SyntheticProperty name="generateCenter" type="boolean" value="false"/>

</SyntheticProperties>

<AuxValues>

<AuxValue name="FormSettings\_autoResourcing" type="java.lang.Integer" value="0"/>

<AuxValue name="FormSettings\_autoSetComponentName" type="java.lang.Boolean" value="false"/>

<AuxValue name="FormSettings\_generateFQN" type="java.lang.Boolean" value="true"/>

<AuxValue name="FormSettings\_generateMnemonicsCode" type="java.lang.Boolean" value="false"/>

<AuxValue name="FormSettings\_i18nAutoMode" type="java.lang.Boolean" value="false"/>

<AuxValue name="FormSettings\_layoutCodeTarget" type="java.lang.Integer" value="1"/>

<AuxValue name="FormSettings\_listenerGenerationStyle" type="java.lang.Integer" value="0"/>

<AuxValue name="FormSettings\_variablesLocal" type="java.lang.Boolean" value="false"/>

<AuxValue name="FormSettings\_variablesModifier" type="java.lang.Integer" value="2"/>

</AuxValues>

<Layout>

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</Group>

</DimensionLayout>

<DimensionLayout dim="1">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="300" max="32767" attributes="0"/>

</Group>

</DimensionLayout>

</Layout>

</Form>

<Layout>

<DimensionLayout dim="0">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="400" max="32767" attributes="0"/>

</Group>

</DimensionLayout>

<DimensionLayout dim="1">

<Group type="103" groupAlignment="0" attributes="0">

<EmptySpace min="0" pref="300" max="32767" attributes="0"/>

</Group>

</DimensionLayout>

</Layout>

</Form>

cal.java

package com.mycompany.jq15;

public class cal extends javax.swing.JPanel {

public cal() {

initComponents();

}

@SuppressWarnings("unchecked")

private void initComponents() {

jTextField1 = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

jButton6 = new javax.swing.JButton();

jButton7 = new javax.swing.JButton();

jButton8 = new javax.swing.JButton();

jButton9 = new javax.swing.JButton();

jButton10 = new javax.swing.JButton();

jButton11 = new javax.swing.JButton();

jButton12 = new javax.swing.JButton();

jButton13 = new javax.swing.JButton();

jButton14 = new javax.swing.JButton();

jButton15 = new javax.swing.JButton();

jButton16 = new javax.swing.JButton();

jButton1.setText("8");

jButton2.setText("3");

jButton3.setText("7");

jButton4.setText("9");

jButton5.setText("6");

jButton6.setText("4");

jButton7.setText("5");

jButton8.setText("2");

jButton9.setText("0");

jButton10.setText("1");

jButton11.setText("-");

jButton12.setText("+");

jButton13.setText("\*");

jButton14.setText("/");

jButton15.setText("=");

jButton16.setText("Clear");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);

this.setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 307, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(62, 62, 62)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(24, 24, 24)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(28, 28, 28)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))))))

.addGroup(layout.createSequentialGroup()

.addGap(109, 109, 109)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(55, 55, 55)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addContainerGap(61, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(63, 63, 63)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(318, Short.MAX\_VALUE)))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(40, 40, 40)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(48, 48, 48)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(75, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(124, 124, 124)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(302, Short.MAX\_VALUE)))

);

}// </editor-fold>//GEN-END:initComponents

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton10;

private javax.swing.JButton jButton11;

private javax.swing.JButton jButton12;

private javax.swing.JButton jButton13;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

jButton1.setText("8");

jButton2.setText("3");

jButton3.setText("7");

jButton4.setText("9");

jButton5.setText("6");

jButton6.setText("4");

jButton7.setText("5");

jButton8.setText("2");

jButton9.setText("0");

jButton10.setText("1");

jButton11.setText("-");

jButton12.setText("+");

jButton13.setText("\*");

jButton14.setText("/");

jButton15.setText("=");

jButton16.setText("Clear");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);

this.setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 307, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(62, 62, 62)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(24, 24, 24)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(28, 28, 28)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))))))

.addGroup(layout.createSequentialGroup()

.addGap(109, 109, 109)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(55, 55, 55)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addContainerGap(61, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(63, 63, 63)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(318, Short.MAX\_VALUE)))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(40, 40, 40)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(48, 48, 48)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(75, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(124, 124, 124)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(302, Short.MAX\_VALUE)))

);

}// </editor-fold>//GEN-END:initComponents

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton10;

private javax.swing.JButton jButton11;

private javax.swing.JButton jButton12;

private javax.swing.JButton jButton13;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

jButton16.setText("Clear");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);

this.setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 307, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(62, 62, 62)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(24, 24, 24)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(28, 28, 28)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))))))

.addGroup(layout.createSequentialGroup()

.addGap(109, 109, 109)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(55, 55, 55)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addContainerGap(61, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(63, 63, 63)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(318, Short.MAX\_VALUE)))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(40, 40, 40)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(48, 48, 48)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(75, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(124, 124, 124)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(302, Short.MAX\_VALUE)))

);

}// </editor-fold>//GEN-END:initComponents

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton10;

private javax.swing.JButton jButton11;

private javax.swing.JButton jButton12;

private javax.swing.JButton jButton13;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(28, 28, 28)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))))))

.addGroup(layout.createSequentialGroup()

.addGap(109, 109, 109)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(55, 55, 55)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addContainerGap(61, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(63, 63, 63)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(318, Short.MAX\_VALUE)))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(40, 40, 40)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(48, 48, 48)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(75, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(124, 124, 124)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(302, Short.MAX\_VALUE)))

);

}// </editor-fold>//GEN-END:initComponents

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton10;

private javax.swing.JButton jButton11;

private javax.swing.JButton jButton12;

private javax.swing.JButton jButton13;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

.addGap(63, 63, 63)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(318, Short.MAX\_VALUE)))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(40, 40, 40)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(48, 48, 48)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(75, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(124, 124, 124)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(302, Short.MAX\_VALUE)))

);

}// </editor-fold>//GEN-END:initComponents

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton10;

private javax.swing.JButton jButton11;

private javax.swing.JButton jButton12;

private javax.swing.JButton jButton13;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(75, Short.MAX\_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(124, 124, 124)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(302, Short.MAX\_VALUE)))

);

}

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton10;

private javax.swing.JButton jButton11;

private javax.swing.JButton jButton12;

private javax.swing.JButton jButton13;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

Cal.form

private javax.swing.JButton jButton12;

private javax.swing.JButton jButton13;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JTextField jTextField1;

// End of variables declaration//GEN-END:variables

}

<?xml version="1.0" encoding="UTF-8" ?>

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<AuxValue name="FormSettings\_i18nAutoMode" type="java.lang.Boolean" value="false"/>

<AuxValue name="FormSettings\_layoutCodeTarget" type="java.lang.Integer" value="1"/>

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<AuxValue name="FormSettings\_variablesLocal" type="java.lang.Boolean" value="false"/>

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</AuxValues>

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<Component id="jButton9" alignment="1" min="-2" pref="47" max="-2" attributes="0"/>

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<Group type="103" groupAlignment="0" attributes="0">

<Group type="102" attributes="0">

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<Component id="jButton10" min="-2" pref="47" max="-2" attributes="0"/>

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<Component id="jButton6" alignment="3" min="-2" pref="37" max="-2" attributes="0"/>

<Component id="jButton11" alignment="3" min="-2" pref="39" max="-2" attributes="0"/>

</Group>

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<Group type="103" groupAlignment="3" attributes="0">

<Component id="jButton8" alignment="3" min="-2" pref="37" max="-2" attributes="0"/>

<Component id="jButton2" alignment="3" min="-2" pref="37" max="-2" attributes="0"/>

<Component id="jButton10" alignment="3" min="-2" pref="37" max="-2" attributes="0"/>

<Component id="jButton13" alignment="3" min="-2" pref="39" max="-2" attributes="0"/>

</Group>

<EmptySpace type="separate" max="-2" attributes="0"/>

<Group type="103" groupAlignment="3" attributes="0">

<Component id="jButton9" alignment="3" min="-2" pref="37" max="-2" attributes="0"/>

<Component id="jButton14" alignment="3" min="-2" pref="39" max="-2" attributes="0"/>

</Group>

</Group>

<Component id="jButton5" min="-2" pref="37" max="-2" attributes="0"/>

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<EmptySpace pref="302" max="32767" attributes="0"/>

</Group>

</Group>

</Group>

</DimensionLayout>

</Layout>

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</Properties>

</Component>

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(16)

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</Form>

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.\*;

public class StudentManagementSystem {

private static final String DB\_URL = "jdbc:mysql:

private static final String DB\_USER = "your\_db\_username";

private static final String DB\_PASSWORD = "your\_db\_password";

private Connection connection;

private Statement statement;

private ResultSet resultSet;

private JFrame loginFrame;

private JFrame studentManagementFrame;

private JTextField usernameField;

private JPasswordField passwordField;

private JButton loginButton;

private JTextField employeeIdField;

private JTextField firstNameField;

private JTextField lastNameField;

private JTextField batchIdField;

private JButton insertButton;

private JButton updateButton;

private JButton deleteButton;

private JButton loadAllButton;

public static void main(String[] args) {

SwingUtilities.invokeLater(() -> new StudentManagementSystem().createAndShowGUI());

}

public void createAndShowGUI() {

// Initialize the database connection

initializeDatabase();

// Create and show the login form

createLoginForm();

// Create and show the student management form

createStudentManagementForm();

}

private void initializeDatabase() {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

connection = DriverManager.getConnection(DB\_URL, DB\_USER, DB\_PASSWORD);

statement = connection.createStatement();

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

// Handle exceptions here

}

}

private void createLoginForm() {

// Code to create the login form (JFrame, labels, text fields, and login button).

// Add action listeners to the login button to perform login validation.

// If login is successful, show the student management form and hide the login form.

}

private void createStudentManagementForm() {

// Code to create the student management form (JFrame, labels, text fields, buttons, etc.).

// Add action listeners to perform insert, update, delete, and load all functionalities.

// Handle database operations (insert, update, delete, select) based on button clicks.

}

private void insertRecord() {

// Code to insert a record into the 'Student' table based on the values entered in the text fields.

}

private void updateRecord() {

// Code to update a record in the 'Student' table based on the Employee\_Id entered in the text field.

}

private void deleteRecord() {

// Code to delete a record from the 'Student' table based on the Employee\_Id entered in the text field.

}

private void loadAllRecords() {

// Code to retrieve all records from the 'Student' table and display them.

}

private void closeConnection() {

try {

if (resultSet != null)

resultSet.close();

if (statement != null)

statement.close();

if (connection != null)

connection.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

}

public static void main(String[] args) {

SwingUtilities.invokeLater(() -> new StudentManagementSystem().createAndShowGUI());

}

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