#### Code

#### Main.java

```
package application;
import javafx.application.Application;
import javafx.fxml.FXMLLoader;
import javafx.stage.Stage;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.layout.BorderPane;
public class Main extends Application {
      @Override
     public void start(Stage primaryStage) {
            try {
                  Parent root =
FXMLLoader.load(getClass().getResource("Main.fxml"));
                  BorderPane root = new BorderPane();
                  Scene scene = new Scene(root);
      scene.getStylesheets().add(getClass().getResource("application.css").to
ExternalForm());
                  primaryStage.setScene(scene);
                  primaryStage.setTitle("Assignment2-Sultan-1080082");
                  primaryStage.show();
            } catch(Exception e) {
                  e.printStackTrace();
      public static void main(String[] args) {
            launch(args);
      }
```

#### Main.fxml

```
<?xml version="1.0" encoding="UTF-8"?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.TextField?>
<?import javafx.scene.layout.AnchorPane?>
<AnchorPane prefHeight="157.0" prefWidth="579.0"</pre>
xmlns="http://javafx.com/javafx/18" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="application.controller">
   <children>
      <AnchorPane layoutY="-8.0" prefHeight="202.0" prefWidth="579.0">
         <children>
            <Button layoutX="416.0" layoutY="136.0" mnemonicParsing="false"</pre>
onAction="#sign" text="Signature" />
            <Button layoutX="260.0" layoutY="136.0" mnemonicParsing="false"</pre>
onAction="#mult" text="Mutiply" />
            <Button layoutX="340.0" layoutY="136.0" mnemonicParsing="false"</pre>
onAction="#div" text="Divide" />
            <Button layoutX="83.0" layoutY="136.0" mnemonicParsing="false"</pre>
onAction="#add" text="Add" />
            <Button layoutX="160.0" layoutY="136.0" mnemonicParsing="false"</pre>
onAction="#sub" text="Substract" />
            <Label layoutX="14.0" layoutY="29.0" text="Number 1:" />
            <Label layoutX="165.0" layoutY="29.0" text="Number 2:" />
            <Label layoutX="340.0" layoutY="29.0" text="Result:" />
            <Label fx:id="Xiaojie Zhu" layoutX="488.0" layoutY="29.0"</pre>
text="Xiaojie Zhu" />
            <TextField fx:id="number1TextFiled" layoutX="81.0" layoutY="25.0"
prefHeight="18.0" prefWidth="58.0" text="0" />
            <TextField fx:id="resultTextFiled" editable="false"</pre>
layoutX="385.0" layoutY="25.0" prefHeight="26.0" prefWidth="86.0" text="0" />
            <TextField fx:id="number2TextFiled" layoutX="230.0"</pre>
layoutY="24.0" prefHeight="26.0" prefWidth="85.0" text="0" />
         </children>
      </AnchorPane>
   </children>
</AnchorPane>
```

#### controller.java

```
package application;
import javafx.fxml.FXML;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import javafx.scene.paint.Color;
public class controller {
      float num1, num2, res;
      @FXML
      TextField number1TextFiled;
      @FXML
      TextField number2TextFiled;
     private TextField resultTextFiled;
      @FXML
      Label Xiaojie Zhu;
      public void add() {
            try {
            num1=Integer.parseInt(number1TextFiled.getText());
            num2=Integer.parseInt(number2TextFiled.getText());
            res=num1+num2;
            System.out.print(res);
            resultTextFiled.setText(String.valueOf(res));
            catch (Exception e) {
            System.out.println(e);
      public void sub() {
            try {
                  num1=Integer.parseInt(number1TextFiled.getText());
                  num2=Integer.parseInt(number2TextFiled.getText());
                  res=num1-num2;
                  System.out.print(res);
                  resultTextFiled.setText(String.valueOf(res));
                  catch(Exception e) {
                  System.out.println(e);
      public void mult() {
            try {
```

```
num1=Integer.parseInt(number1TextFiled.getText());
            num2=Integer.parseInt(number2TextFiled.getText());
            res=num1*num2;
            System.out.print(res);
            resultTextFiled.setText(String.valueOf(res));
            catch(Exception e) {
            System.out.println(e);
public void div() {
      try {
            num1=Integer.parseInt(number1TextFiled.getText());
            num2=Integer.parseInt(number2TextFiled.getText());
            res=num1/num2;
            System.out.print(res);
            resultTextFiled.setText(String.valueOf(res));
            catch(Exception e) {
            System.out.println(e);
public void sign() {
      Xiaojie Zhu.setTextFill(Color.web("red"));
      Xiaojie Zhu.setText("Sultan");
}
```

# Output

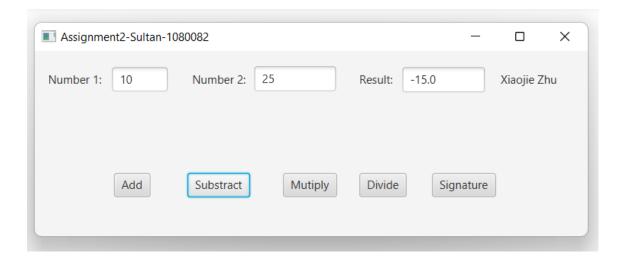
#### Without Any Input



## After Addition



## After Substraction



#### After Multiplication



## After Division



## After Signature

