2022

Software Construction and Development

Lab 08

Roll No: K191048

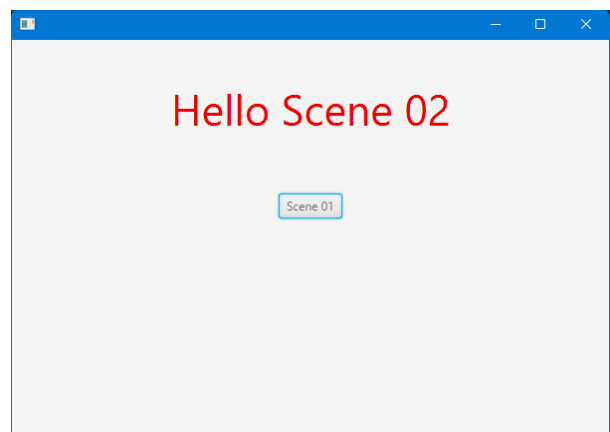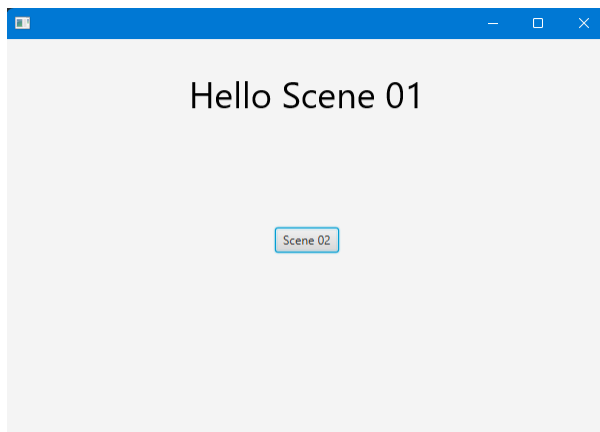Name: Amman Soomro

Section: SE – A

MAIN.JAVA

```java
package application;
import javafx.application.Application;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.stage.Stage;
public class Main extends Application {
  @FXML
  @Override
  public void start(Stage primaryStage) {
    try {
      Parent root = FXMLLoader.load(getClass().getResource("Scene1.fxml"));
      Scene scene = new Scene(root);
      scene
        .getStylesheets()
        .add(getClass().getResource("application.css").toExternalForm());
      primaryStage.setScene(scene);
      primaryStage.show();
    } catch (Exception e) {
      e.printStackTrace();
    }
  }
  public static void main(String[] args) {
    launch(args);
  }
}
```

SCENECONTROLLER.JAVA

```java
package application;

import java.io.IOException;
import javafx.event.ActionEvent;
import javafx.fxml.FXMLLoader;
import javafx.scene.Node;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.stage.Stage;
```

```java
public class SceneController {
  private Stage stage;
  private Scene scene;
  private Parent root;

  public void gotoSceneOne(ActionEvent e) throws IOException {
    Parent root = FXMLLoader.load(getClass().getResource("Scene1.fxml"));
    stage = (Stage) (((Node) e.getSource()).getScene().getWindow());
    scene = new Scene(root);
    stage.setScene(scene);
    stage.show();
  }

  public void gotoSceneTwo(ActionEvent e) throws IOException {
    Parent root = FXMLLoader.load(getClass().getResource("Scene2.fxml"));
    stage = (Stage) (((Node) e.getSource()).getScene().getWindow());
    scene = new Scene(root);
    stage.setScene(scene);
    stage.show();
  }
}
```

OUTPUTS

Hello Scene 01

Scene 02

Hello Scene 02

Scene 01

CODES

MAIN.JAVA

```java
package application;
import javafx.application.Application;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.stage.Stage;

public class Main extends Application {

    @FXML
    @Override
    public void start(Stage primaryStage) {
        try {
            Parent root = FXMLLoader.load(getClass().getResource("Scene01.fxml"));
            Scene scene = new Scene(root);
            primaryStage.setScene(scene);
            primaryStage.show();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

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

CONTROLLER.JAVA

```java
package application;

import java.io.IOException;
import javafx.application.Platform;
import javafx.event.ActionEvent;
import javafx.fxml.FXMLLoader;
import javafx.scene.Node;
import javafx.scene.Parent;
import javafx.scene.Scene;
```

```java
import javafx.scene.image.Image;
import javafx.scene.layout.Background;
import javafx.scene.layout.BackgroundImage;
import javafx.scene.layout.BackgroundPosition;
import javafx.scene.layout.BackgroundRepeat;
import javafx.scene.layout.BackgroundSize;
import javafx.stage.Stage;

public class Controller {
  private Stage stage;
  private Scene scene;

  public void Scene01(ActionEvent e) throws IOException {
    Parent root = FXMLLoader.load(getClass().getResource("Scene01.fxml"));
    stage = (Stage) (((Node) e.getSource()).getScene().getWindow());
    scene = new Scene(root);
    stage.setScene(scene);
    stage.showAndWait();
  }

  public void Scene02(ActionEvent e) throws IOException {
    Parent root = FXMLLoader.load(getClass().getResource("Scene02.fxml"));
    stage = (Stage) (((Node) e.getSource()).getScene().getWindow());
    scene = new Scene(root);
    stage.setScene(scene);
    stage.show();
  }

  public void PopupWindow(ActionEvent e) throws IOException {
    Parent root = FXMLLoader.load(getClass().getResource("PopupWindow.fxml"));
    stage = (Stage) (((Node) e.getSource()).getScene().getWindow());
    Scene scene = new Scene(root);
    stage.setScene(scene);
    stage.show();
  }
}
```

This is Scene 01

Next Scene

This is Scene 02

Next Scene

Popup Window

Goto Scene