

**13-08-2024**

## **1] IMAGE INSERTION IN JAVAFX**

```
package javafxapplication8;

import javafx.application.Application;
import javafx.scene.Scene;
import javafx.scene.image.Image;
import javafx.scene.image.ImageView;
import javafx.scene.layout.StackPane;
import javafx.stage.Stage;

public class JavaFXApplication8 extends Application {

    @Override
    public void start(Stage primaryStage) {

        Image image = new Image("file:C:\\Users\\oviya\\Downloads\\images (1).jpeg");

        ImageView imageView = new ImageView(image);

        imageView.setFitWidth(290);
        imageView.setFitHeight(350);
        imageView.setPreserveRatio(true);

        StackPane root = new StackPane();
        root.getChildren().add(imageView);

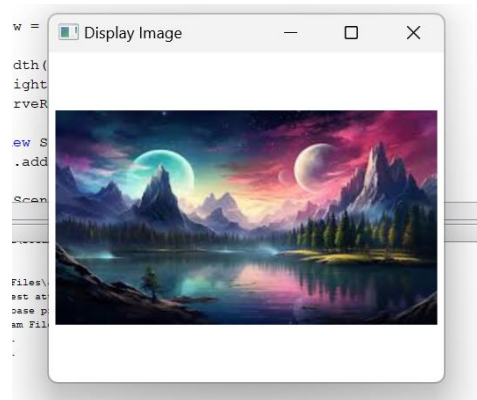
        Scene scene = new Scene(root, 300, 250);

        primaryStage.setTitle("Display Image");
        primaryStage.setScene(scene);
        primaryStage.show();
    }

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

```
}  
}
```

## OUTPUT:



## 2] AUDIO INSERTION

```
package javafxapplication9;
```

```
import javafx.application.Application;  
import javafx.event.ActionEvent;  
import javafx.event.EventHandler;  
import javafx.scene.Scene;  
import javafx.scene.control.Button;  
import javafx.scene.layout.StackPane;  
import javafx.stage.Stage;  
import javafx.scene.media.Media;  
import javafx.scene.media.MediaPlayer;  
import java.io.File;
```

```
public class JavaFXApplication9 extends Application {
```

```
    @Override
```

```
    public void start(Stage primaryStage) {
```

```
        String audioFilePath = "C:\\Users\\oviya\\Downloads\\chin-tapak-dum-dum-made-with-Voicemod.mp3";
```

```
        Media audio = new Media(new File(audioFilePath).toURI().toString());
```

```
        MediaPlayer mediaPlayer = new MediaPlayer(audio);
```

```

Button btn = new Button();
btn.setText("Play Audio");
btn.setOnAction(new EventHandler<ActionEvent>() {

    @Override
    public void handle(ActionEvent event) {
        mediaPlayer.play();
        System.out.println("Playing audio...");
    }
});

StackPane root = new StackPane();
root.getChildren().add(btn);

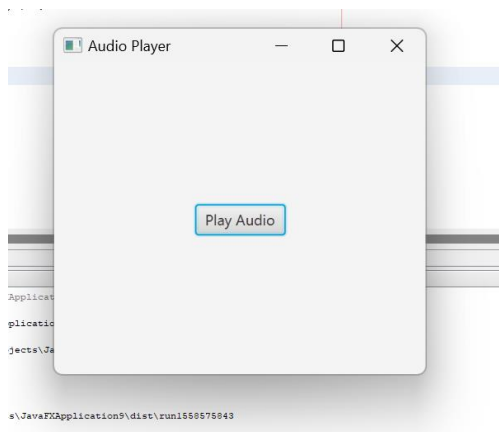
Scene scene = new Scene(root, 300, 250);

primaryStage.setTitle("Audio Player");
primaryStage.setScene(scene);
primaryStage.show();
}

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

```

**OUTPUT:**



### 3] KEYBOARD EVENT HANDLING

```
package javafxapplication10;

import javafx.application.Application;
import javafx.event.EventHandler;
import javafx.scene.Group;
import javafx.scene.Scene;
import javafx.scene.control.TextField;
import javafx.scene.input.KeyEvent;
import javafx.scene.paint.Color;
import javafx.stage.Stage;

public class JavaFXApplication10 extends Application{

    @Override
    public void start(Stage primaryStage) throws Exception {

        TextField tf1 = new TextField();
        TextField tf2 = new TextField();
        tf1.setTranslateX(100);
        tf1.setTranslateY(100);
        tf2.setTranslateX(300);
        tf2.setTranslateY(100);

        tf1.setOnKeyPressed(new EventHandler<KeyEvent>() {
```

```

@Override

public void handle(KeyEvent key) {

    tf2.setText("Key Pressed : "+" "+key.getText());

}

});

Group root = new Group();
root.getChildren().addAll(tf2,tf1);
Scene scene = new Scene(root,500,200,Color.WHEAT);
primaryStage.setScene(scene);
primaryStage.setTitle("Handling KeyEvent");
primaryStage.show();
}

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

}

```

#### OUTPUT:



#### 4] MOUSE EVENT HANDLIND

```

package javafxapplication11;

import javafx.animation.TranslateTransition;
import javafx.application.Application;
import javafx.event.EventHandler;
import javafx.scene.Group;
import javafx.scene.Scene;
import javafx.scene.control.Button;

```

```

import javafx.scene.input.MouseEvent;
import javafx.scene.paint.Color;
import javafx.scene.shape.Circle;
import javafx.stage.Stage;
import javafx.util.Duration;

public class JavaFXApplication11 extends Application{
    @Override
    public void start(Stage primaryStage) throws Exception {
        Circle c = new Circle(100,100,50);
        c.setFill(Color.GREEN);
        c.setStroke(Color.BLACK);

        Button btn = new Button("Play");
        btn.setTranslateX(125);
        btn.setTranslateY(200);

        Button btn1 = new Button("Pause");
        btn1.setTranslateX(175);
        btn1.setTranslateY(200);

        TranslateTransition trans = new TranslateTransition();

        trans.setAutoReverse(true);
        trans.setByX(200);
        trans.setCycleCount(100);
        trans.setDuration(Duration.millis(500));
        trans.setNode(c);

        EventHandler<MouseEvent> handler = new EventHandler<MouseEvent>() {

            @Override
            public void handle(MouseEvent event) {
                if(event.getSource()==btn)

```

```

        {
            trans.play();
        }
        if(event.getSource()==btn1)
        {
            trans.pause();
        }
        event.consume();
    }

};

btn.setOnMouseClicked(handler);
btn1.setOnMouseClicked(handler);
Group root = new Group();
root.getChildren().addAll(c,btn,btn1);
Scene scene = new Scene(root,420,300,Color.WHEAT);
primaryStage.setScene(scene);
primaryStage.setTitle("EventHandler example");
primaryStage.show();
}

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

```

## OUTPUT:

