

# Java lab experiment - javafx

19BCE1505

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## 1. Button.java

```
package FirstJavaFX.main;

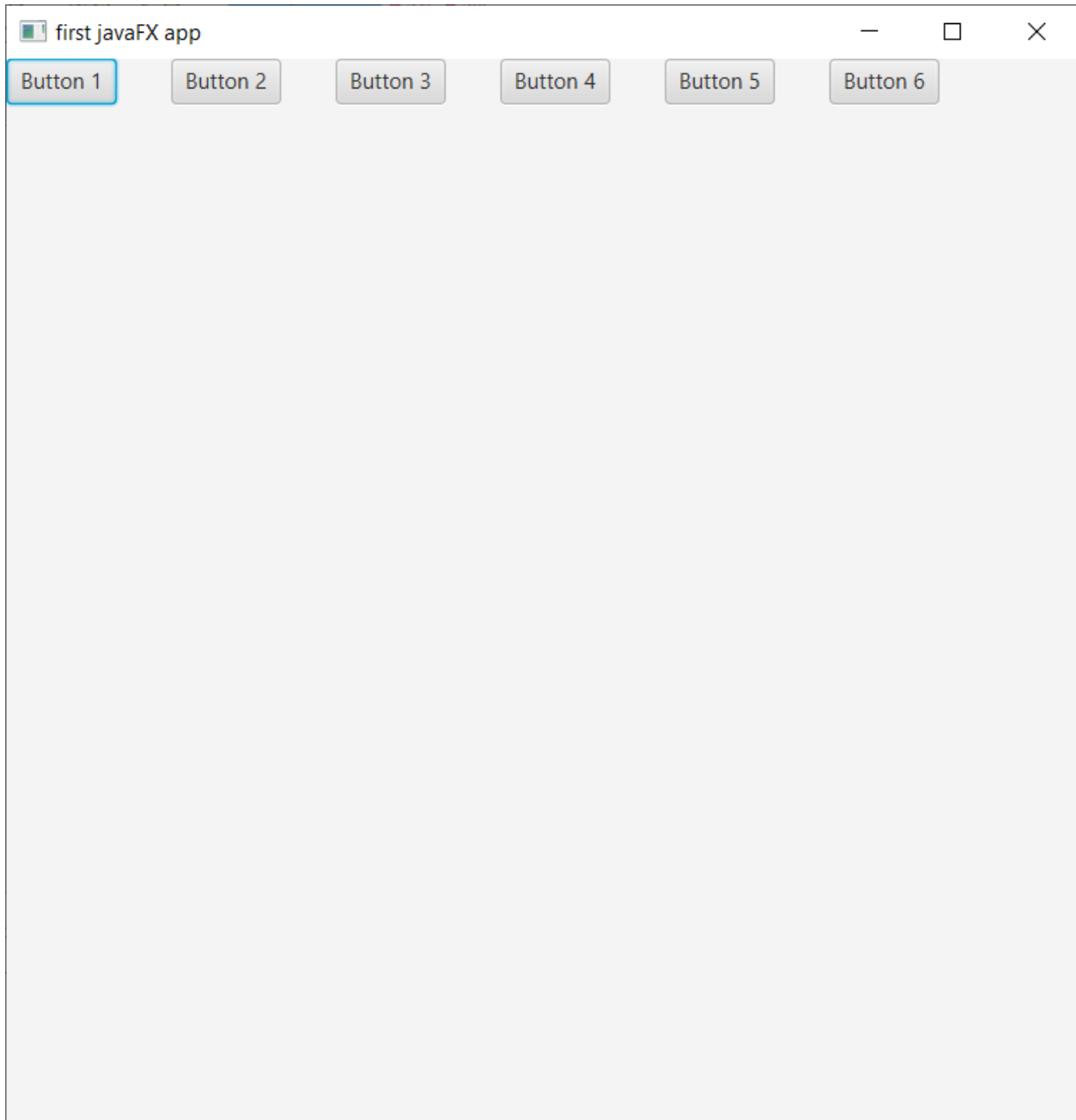
import javafx.application.Application;
import javafx.geometry.Pos;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.layout.HBox;
import javafx.scene.layout.StackPane;
import javafx.stage.Stage;
public class HelloWorld extends Application{

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

        HBox root = new HBox(30);
        Button b1 = new Button("Button 1");
        Button b2 = new Button("Button 2");
        Button b3 = new Button("Button 3");
        Button b4 = new Button("Button 4");
        Button b5 = new Button("Button 5");
        Button b6 = new Button("Button 6");

        root.getChildren().addAll(b1,b2,b3,b4,b5,b6);
        Scene scene = new Scene(root, 600, 600);
        stage.setScene(scene);
        stage.setTitle("Horizontal button");
        stage.show();
    }
    public static void main(String[] args){
```

```
    launch(args);  
}  
  
}
```



**2.**

```
package FirstJavaFX.main;
```

```

import javafx.application.Application;
import javafx.geometry.Pos;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.TextField;
import javafx.scene.control.Label;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.scene.layout.StackPane;
import javafx.scene.paint.Color;
import javafx.scene.text.Font;
import javafx.scene.text.FontWeight;
import javafx.stage.Stage;

/**
 *
 * @author sadhu
 */
public class HelloWorld extends Application{

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

        VBox root = new VBox(30);
        TextField t1 = new TextField();
        TextField t2 = new TextField();
        TextField t3 = new TextField();
        TextField t4 = new TextField();

        t1.setFont(Font.font("TimesRoman",FontWeight.BOLD,
20));
        t2.setFont(Font.font("TimesRoman",FontWeight.BOLD,
20));

```

```

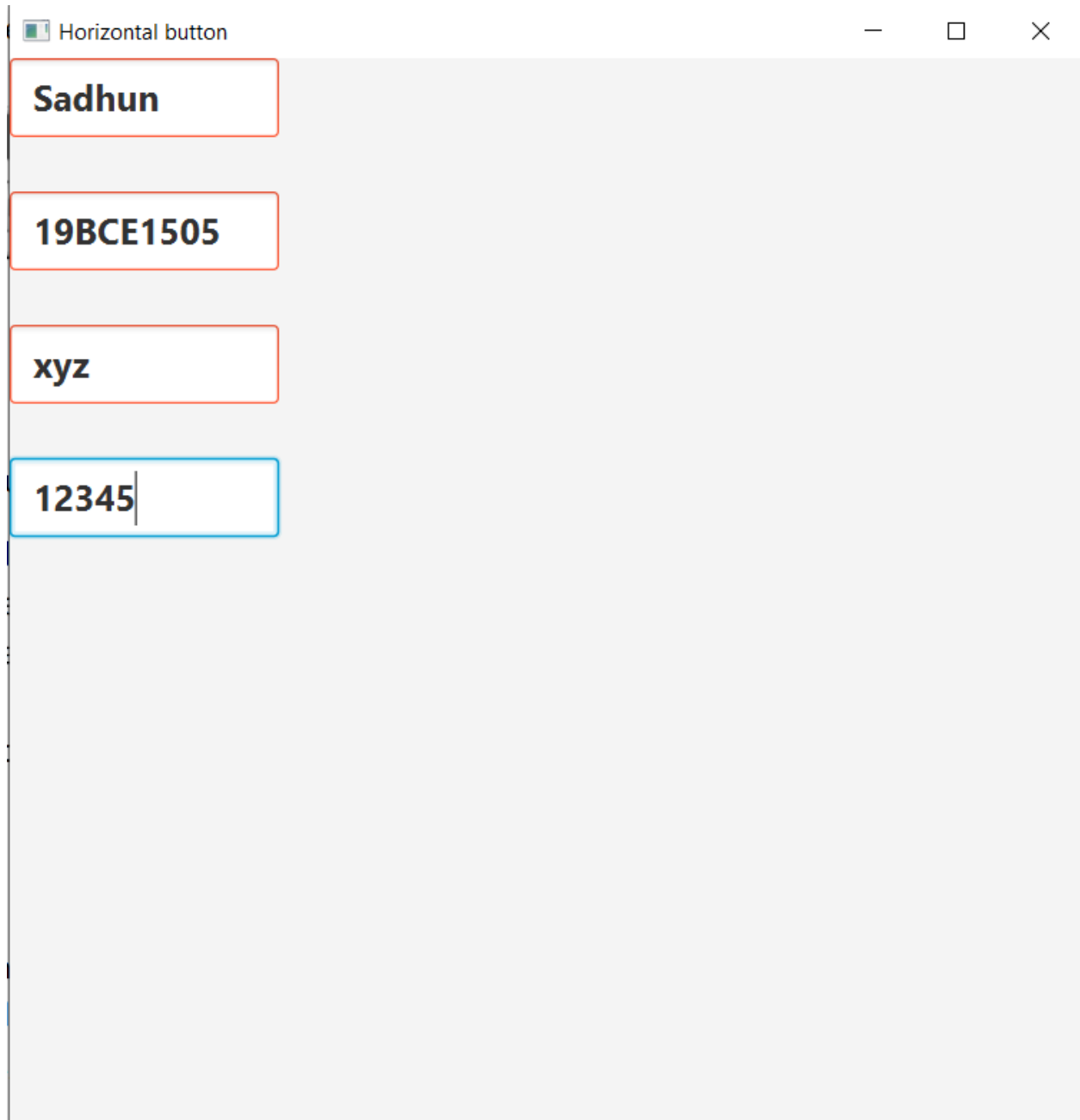
        t3.setFont(Font.font("TimesRoman",FontWeight.BOLD,
20));
        t4.setFont(Font.font("TimesRoman",FontWeight.BOLD,
20));

        t1.setMaxWidth(150);
        t2.setMaxWidth(150);
        t3.setMaxWidth(150);
        t4.setMaxWidth(150);
        t1.setStyle("-fx-text-box-border: #FF5733;");
        t2.setStyle("-fx-text-box-border: #FF5733;");
        t3.setStyle("-fx-text-box-border: #FF5733;");
        t4.setStyle("-fx-text-box-border: #FF5733;");

//        t1.setFill(Color.RED);
//        t2.setFill(Color.GREEN);
//        t3.setFill(Color.BLUE);

        root.getChildren().addAll(t1,t2,t3,t4);
        Scene scene = new Scene(root, 600, 600);
        stage.setScene(scene);
        stage.setTitle("Horizontal button");
        stage.show();
    }
    public static void main(String[] args){
        launch(args);
    }
}

```



3.

```
package FirstJavaFX.main;
```

```
import javafx.application.Application;  
import javafx.geometry.Pos;  
import javafx.scene.Scene;
```

```

import javafx.scene.control.Button;
import javafx.scene.control.TextField;
import javafx.scene.control.Label;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.scene.layout.StackPane;
import javafx.scene.paint.Color;
import javafx.scene.text.Font;
import javafx.scene.text.FontWeight;
import javafx.stage.Stage;
import javafx.scene.image.ImageView;

/**
 *
 * @author sadhu
 */
public class HelloWorld extends Application{

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

        VBox root = new VBox(30);

        int rnum = (int) ((Math.random() * 3));
        System.out.println("the number is : " + rnum +
"\n");
        if(rnum == 0){
            ImageView imgview = new
ImageView("https://media.istockphoto.com/vectors/scrib
blesmears24-vector-id1173898557?b=1&k=6&m=1173898557&s
=612x612&w=0&h=vTlRQV2U1HZwflgB_J_wztj6_q2gFRBuvdvzTip
_WFU=");
            Label l1 = new Label("x", imgview);
            root.getChildren().addAll(l1);
        }
    }
}

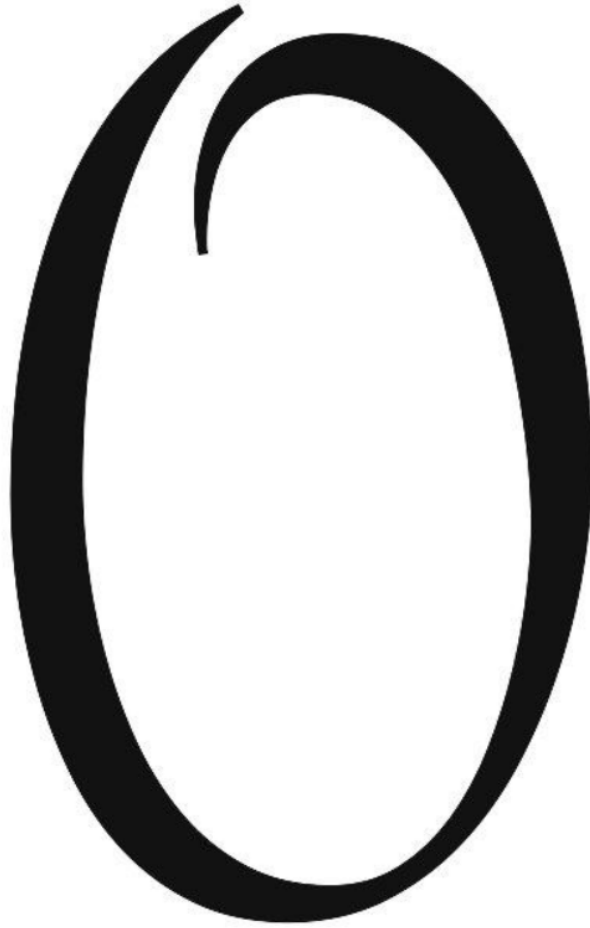
```


```
        else if(rnum == 1){
            ImageView imgview = new
ImageView("https://i.pinimg.com/originals/bb/9c/ed/bb9
ced96b051687e6592058027eac7f3.jpg");
            Label l2 = new Label("O", imgview);
            root.getChildren().addAll(l2);
        }
        else {
            Label l3 = new Label("No image dispalyed");
            root.getChildren().addAll(l3);
        }
        Scene scene = new Scene(root, 800, 800);
        stage.setScene(scene);
        stage.setTitle("X - O");
        stage.show();
    }
    public static void main(String[] args){
        launch(args);
    }
}
```



x





 X - O

No image dispalyed