



Instituto Tecnológico Superior de Jerez

Jerez, Zacatecas

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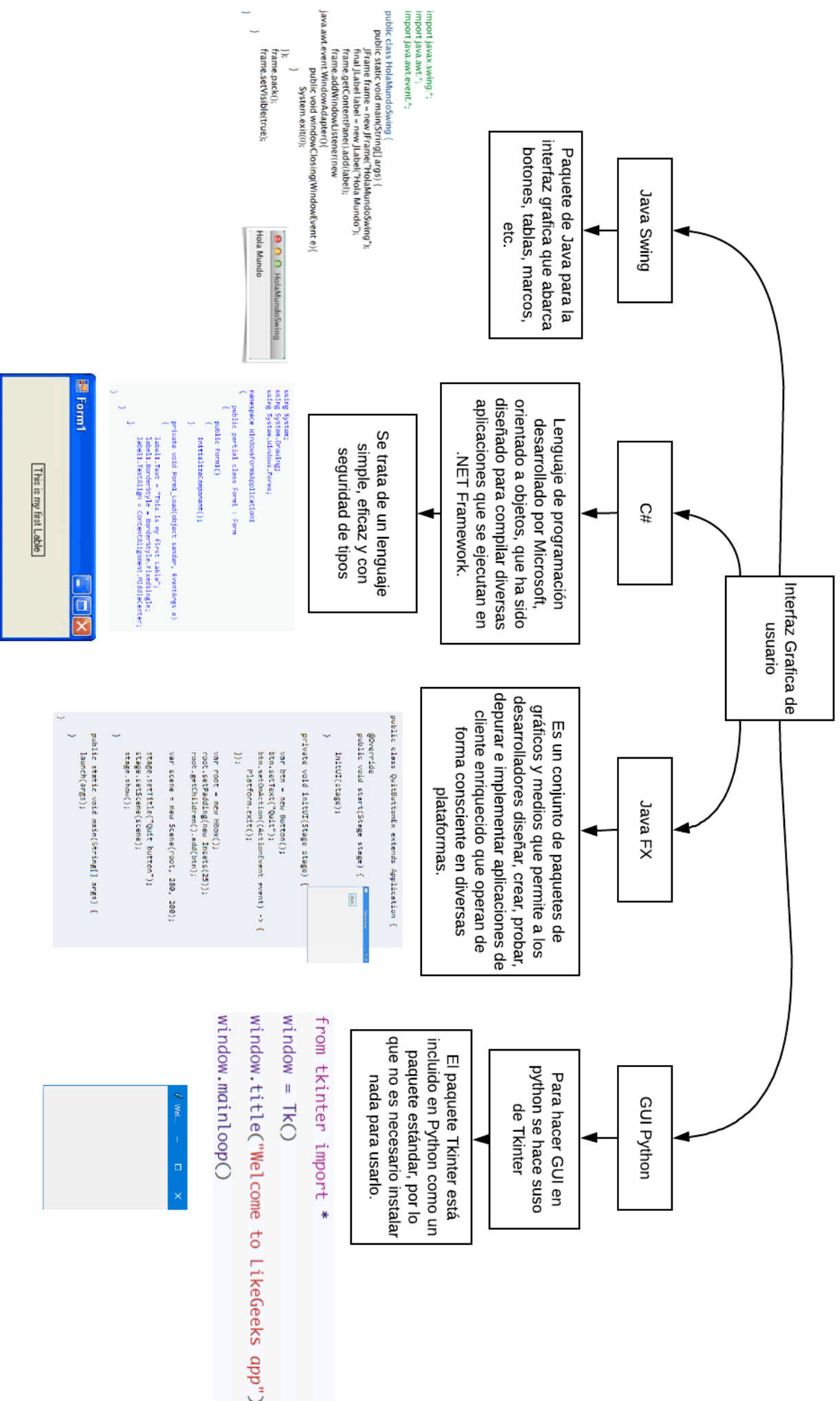
Ingeniería en Sistemas Computacionales

Cuarto Semestre

Estructura de datos

Mapa conceptual

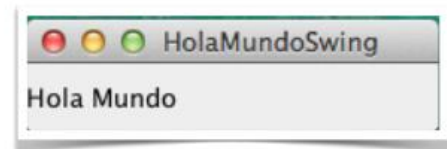
M.T.I. Salvador Acevedo Sandoval



Java Swing

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

public class HolaMundoSwing {
    public static void main(String[] args) {
        JFrame frame = new JFrame("HolaMundoSwing");
        final JLabel label = new JLabel("Hola Mundo");
        frame.getContentPane().add(label);
        frame.addWindowListener(new
java.awt.event.WindowAdapter(){
            public void windowClosing(WindowEvent e){
                System.exit(0);
            }
        });
        frame.pack();
        frame.setVisible(true);
    }
}
```



C#

```
public class QuitButtonEx extends Application {

    @Override
    public void start(Stage stage) {

        initUI(stage);
    }

    private void initUI(Stage stage) {

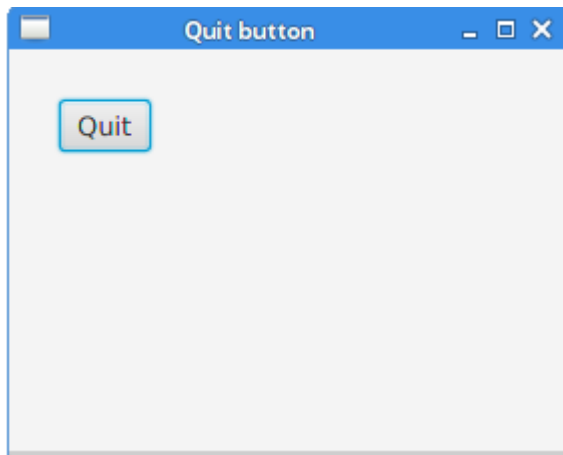
        var btn = new Button();
        btn.setText("Quit");
        btn.setOnAction((ActionEvent event) -> {
            Platform.exit();
        });

        var root = new HBox();
        root.setPadding(new Insets(25));
        root.getChildren().add(btn);

        var scene = new Scene(root, 280, 200);

        stage.setTitle("Quit button");
        stage.setScene(scene);
        stage.show();
    }

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

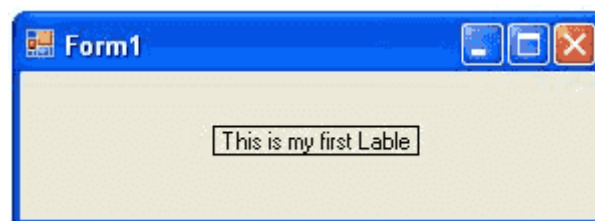


Java FX

```
using System;
using System.Drawing;
using System.Windows.Forms;

namespace WindowsFormsApplication1
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

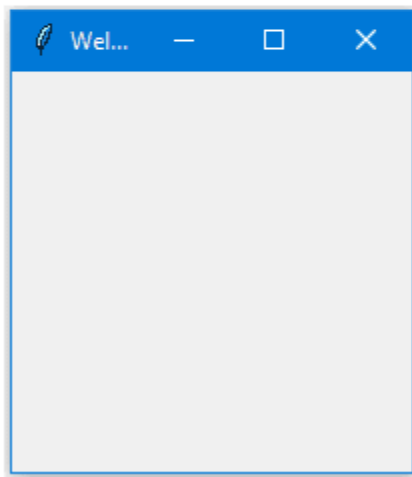
        private void Form1_Load(object sender, EventArgs e)
        {
            label1.Text = "This is my first Lable";
            label1.BorderStyle = BorderStyle.FixedSingle;
            label1.TextAlign = ContentAlignment.MiddleCenter;
        }
    }
}
```



Python

```
from tkinter import *  
window = Tk()  
window.title("Welcome to LikeGeeks app")  
window.mainloop()
```

El resultado debe verse como esto:



Bibliografía

Csharp.net-informations.com. (2019). C# Label Control. [online] Available at: <http://csharp.net-informations.com/gui/label.htm> [Accessed 31 Jan. 2020].

Like Geeks. (2020). Ejemplos de la GUI de Python (Tutorial de Tkinter) - Like Geeks. [online] Available at: <https://likegeeks.com/es/ejemplos-de-la-gui-de-python/> [Accessed 31 Jan. 2020].

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Bodnar, J. (2020). JavaFX first programs - creating first examples in JavaFX. [online] Zetcode.com. Available at: <http://zetcode.com/gui/javafx/firstprograms/> [Accessed 31 Jan. 2020].