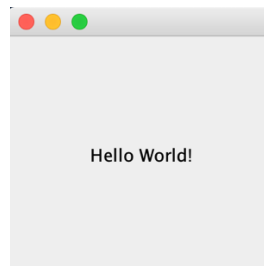# Java Swing Lab 1

I.   Hello World!!!
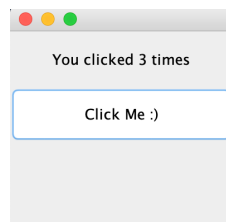

1. Create a new Java project.
2. import javax.swing.*;
3. Code the main function as below:

```java
public static void main(String[] args){
    JFrame f = new JFrame();
    JLabel l = new JLabel( text: "Hello World!");
    l.setHorizontalAlignment(JLabel.CENTER);
    f.setSize( width: 200, height: 200);
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    f.add(l);
    f.setVisible(true);
}
```

4. Run the application

II.   Click Me :)

```java
public static void main(String[] args){
    JFrame f = new JFrame();
    JLabel l = new JLabel( text: "Hello World!");
    JButton b = new JButton( text: "Click Me :)");
    final int[] count = { 0 };

    f.setLayout(null);
    f.setSize( width: 200, height: 200);
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    l.setHorizontalAlignment(JLabel.CENTER);
    l.setBounds( x: 0, y: f.getSize().height/2-100,f.getSize().width, height: 50);

    b.setHorizontalAlignment(JButton.CENTER);
    b.setBounds( x: 0, y: l.getY()+50, f.getSize().width,  height: 50);
    b.addActionListener(new ActionListener() {
        @Override
        public void actionPerformed(ActionEvent e) {
            count[0]++;
            l.setText("You clicked " + count[0] + (count[0]>1?" times":" time"));
        }
    });

    f.add(l);
    f.add(b);
    f.setVisible(true);
}
```
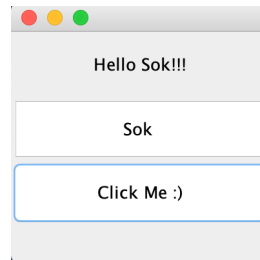
III.   Say Hello


```java
public static void main(String[] args){
    JFrame f = new JFrame();
    JLabel l = new JLabel( text: "Tell me your name");
    JTextField t = new JTextField();
    JButton b = new JButton( text: "Click Me :)");

    f.setLayout(null);
    f.setSize( width: 200, height: 200);
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    l.setHorizontalAlignment(JLabel.CENTER);
    l.setBounds( x: 0, y: f.getSize().height/2-100,f.getSize().width, height: 50);

    t.setHorizontalAlignment(JTextField.CENTER);
    t.setBounds( x: 0, y: l.getY()+50, f.getSize().width,  height: 50);

    b.setHorizontalAlignment(JButton.CENTER);
    b.setBounds( x: 0, y: t.getY()+50, f.getSize().width,  height: 50);
    b.addActionListener(new ActionListener() {
        @Override
        public void actionPerformed(ActionEvent e) {
            l.setText("Hello " + t.getText() + "!!!");
        }
    });
    f.add(l);
    f.add(t);
    f.add(b);
    f.setVisible(true);
}
```
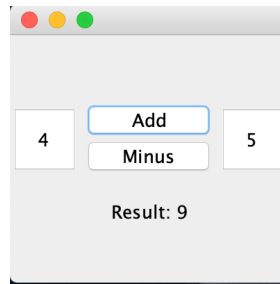
IV.   Add & Minus

| 4 | Add
Minus | 5 |

Result: 9

V. IP Finder

Input domain

rupp.edu.kh

Find IP

65.254.238.132