Báo cáo thực hành lập trình hướng đối tượng

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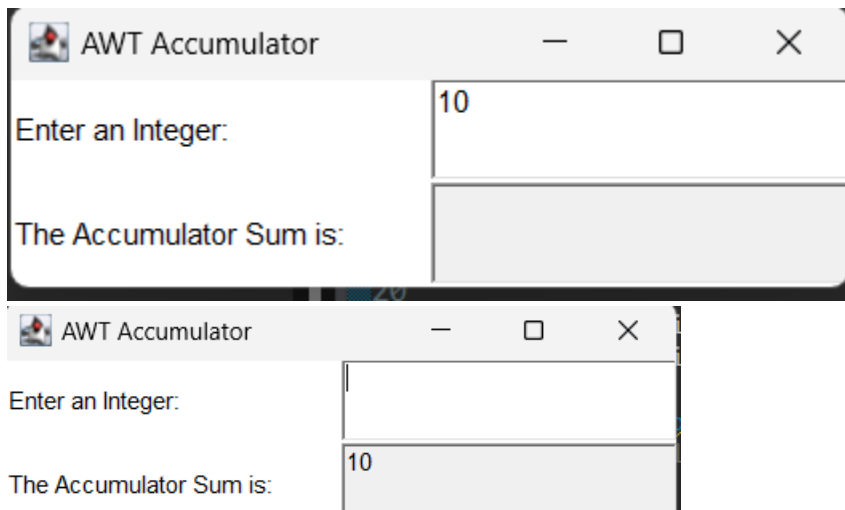
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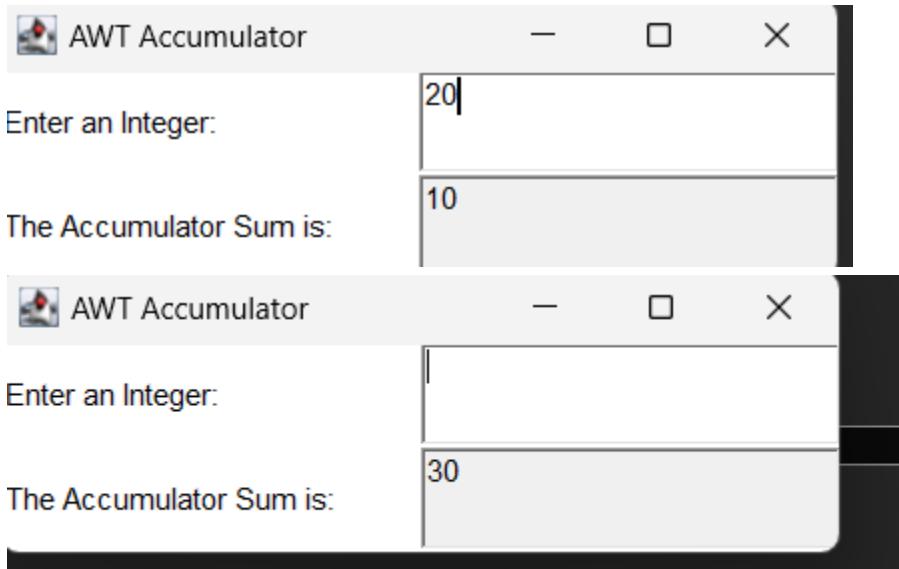
1.1 AWTAtích lũy

```java
 1 package hust.doict.hedspi.swing;
 2
 3
 4 import java.awt.Frame;
 5 import java.awt.GridLayout;
 6 import java.awt.Label;
 7 import java.awt.TextField;
 8 import java.awt.event.ActionEvent;
 9 import java.awt.event.ActionListener;
10
11 public class AWTAccumulator extends Frame {
12     //private static final long serialVersionUID = 1L;
13
14     private TextField tfInput;
15     private TextField tfOutput;
16     private int sum = 0;
17
18     public AWTAccumulator() {
19         setLayout(new GridLayout(2, 2));
20
21         add(new Label("Enter an Integer: "));
22
23         tfInput = new TextField(10);
24         add(tfInput);
25         tfInput.addActionListener(new TFInputListener());
26
27         add(new Label("The Accumulator Sum is: "));
28
29         tfOutput = new TextField(10);
30         tfOutput.setEditable(false);
```
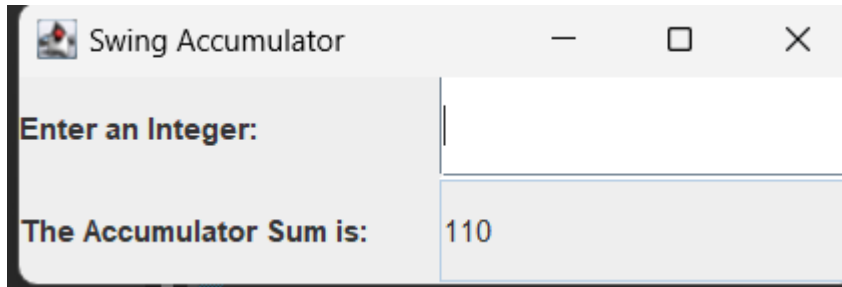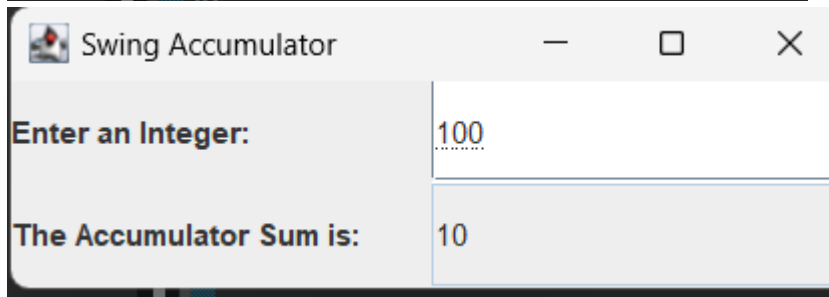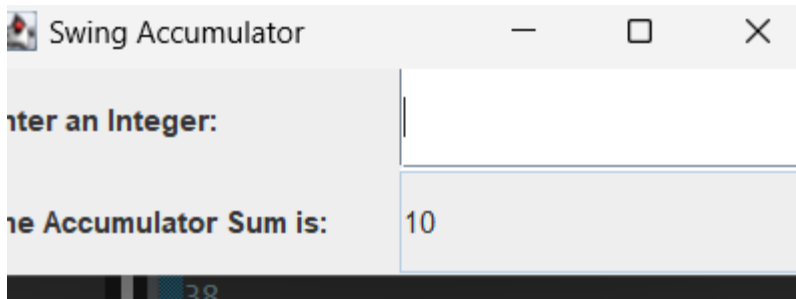
1.2

-Kết quả khi chạy:

1.2 Bộ tích lũy xoay

```java
package hust.doict.hedspi.swing;



import java.awt.Container;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JTextField;

public class SwingAccumulator extends JFrame {
    private JTextField tfInput;
    private JTextField tfOutput;
    private int sum = 0;

    public SwingAccumulator() {
        Container cp =  getContentPane();
        cp.setLayout(new GridLayout(2, 2));

        cp.add(new JLabel("Enter an Integer: "));

        tfInput = new JTextField(10);
        cp.add(tfInput);
        tfInput.addActionListener(new TFInputListener());

        cp.add(new JLabel("The Accumulator Sum is: "));

        tfOutput = new JTextField(10);
```
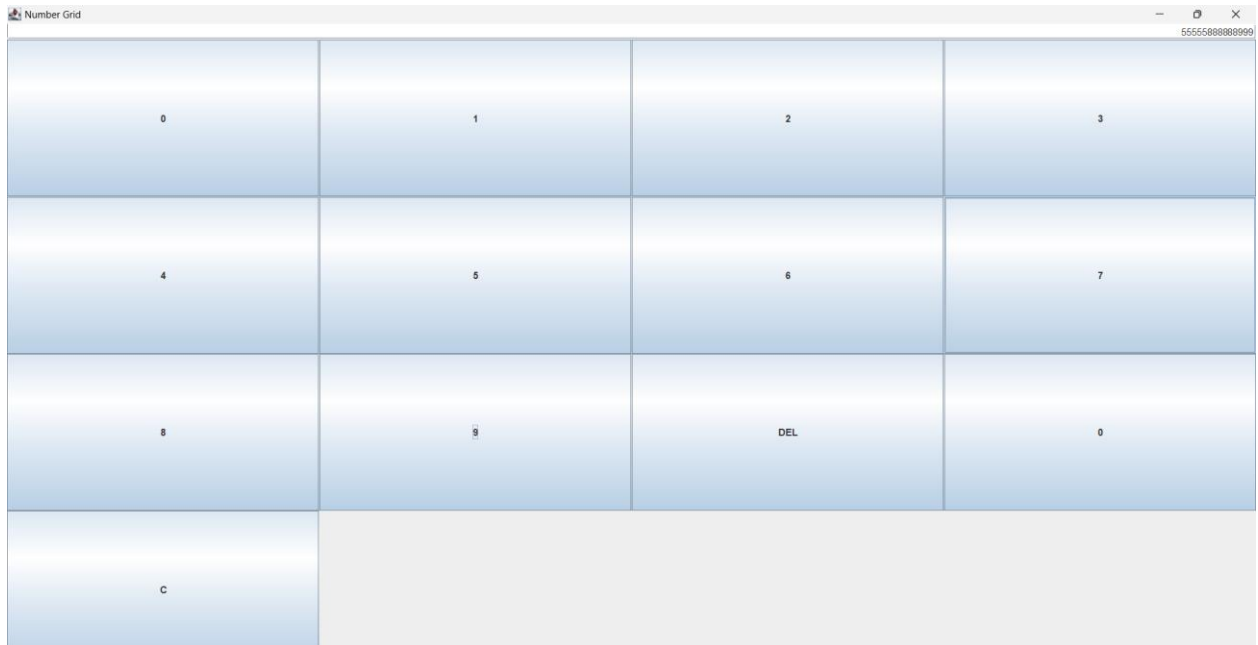
2.2.1 Tạo lớp NumberGrid:

```java
import javax.swing.JTextField;

public class NumberGrid extends JFrame {
    private JButton[] btnNumbers = new JButton[10];
    private JButton btnDelete, btnReset;
    private JTextField tfDisplay;

    public NumberGrid() {

        tfDisplay = new JTextField();
        tfDisplay.setComponentOrientation(ComponentOrientation.RIGHT_TO_LEFT);

        JPanel panelButtons = new JPanel(new GridLayout(4,3));
        addButtons(panelButtons);

        Container cp = getContentPane();
        cp.setLayout(new BorderLayout());
        cp.add(tfDisplay, BorderLayout.NORTH);
        cp.add(panelButtons, BorderLayout.CENTER);

        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setTitle("Number Grid");
        setSize(200, 200);
        setVisible(true);
    }

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

0	1	2	3
4	5	6	7
8	9	DEL	0
C			

3.1 Xem màn hình cửa hang

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