20/4/24

SURYA Gold

Date _____ Page _____

LAB - 9

WAP that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, num1 & num2, The division of Num1 & Num2 is displayed in Result field when the divide is if Num1 & Num2 were not an Integer, the Program would throw an arithematic exception display the messag dialog box.

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

class SwingDemo {

    SwingDemo() {
        JFrame jfm = new JFrame("Divider App");
        jfm.setSize(275, 180);
        jfm.setLayout(new FlowLayout());
        jfm.setDefaultCloseOperation(JFrame.EXIT
                                     ON_CLOSE);
        JLabel jlab = new JLabel("Enter the Divider
                                  and dividend");
        JTextField ajtf = new JTextField(8);
        JTextField bjtf = new JTextField(8);

        JLabel err = new JLabel();
        JLabel alab = new JLabel();

        jfm.add(err);
        jfm.add(jlab);
        jfm.add(ajtf);
```

Date Page

```
ActionListener l = new ActionListener()
{
    public void actionPerformed(ActionEvent e)
    {
        System.out.println("Action Event from a text
    }
};
ajtf.addActionListener(l);
bjtf.addActionListener(l);

buttonActionListener(new ActionListener) {
    public void actionPerformed
    {
        try{
            int a = Integer.parseInt(ajit.getText());
            int b = Integer.parseInt(bjit.getText());
            alab.setText("\nA = "+a);
            blab.setText("\nans="+ans);
        } catch(NumberFormatException c)
        {
            alab.setText("  ");
            blab.setText(" ");
            anslab.setText(");
        } catch (ArithmaticException e) {
            alab.setText("  ");
            blab.setText("  ");
            cri.setText("B should be Non zero");
        }
    }
});
jfm(setVisible(true);
}
```

```
public static void main (String args[])
{
    SwingUtilities.invokeLater(new Runnable()
    {
        public void run(){
            new SwingDemo();
        }
    });
}
}
```

OUTPUT:

Enter the divider and dividend

10 2

Calculate A = 10 B = 2 Ans = 5

Shamanth K Murthy
1BM22CS251

Functions

JFrame :- The javax.swing.JFrame class is a type of container which inherits the java.awt. JFrame works like the main window where components like labels, textfields are added

setSize(int width, int height) - used to resize a frame using width & height parameters

setLayout() - method allows you to the layout of the containers. The layout manager help, layout the components held by this container

setDefault(CloseOperation()- methods is used to specify one of several options for the close button JFrame. EXIT_ON_CLOSE

JLabel- The object of JLabel classes is a component for placing text in a container. It is used to display a single line of read only

JTextField - The object of a JTextFeild class is a text component that allows the editions of a single line text. It inherits JText component class.

add(frame) - adds new frame to the existing frames.

Action Listener - The Java ActionListener is notified whenever you click on the button or menu item. It is notified against ActionEvent

SetText() - This method substitutes new text for all or part of the text in the text field.

SetVisible() is a method that has return type boolean.

23/2/2024