Open ended exercise

Write a program that creates a user interface to perform integer divisions. The user enters two numbers in the text field, NUM1 and NUM2. The division of num1 and num2 is displayed in the result field when the divide button is clicked. If num1 or num2 were not an integer, the program would throw an number format exceptions. If num2 were zero, the program would throw an arithmetic exception display the execution in a message dialog box.

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

class swingdemo {
    swingdemo () {
        jframe jfrm = new jfram ("Divides app");
        jfrm.setsize (275, 150);
        jfm.setlayout (new.FlowLayout());
        jfrm.set default close operation (jfram.exit_on_close);
        Jlable jlab = new Jlable ("Enter the divides and
                                        divident");
        JText fild ajtf = new Jtextfild (8);
        JTent Field bjtf = new Field (8);

        JButton = new JButton ("calculate");

        JLabel Crr = new Jlable();
        Jlabel alab = new JLabel();
        Jlabel blab = new JLable();
        Jlabel anslab = new JLabel();
```

```java
jfrm . add (err);
jfrm . add (jlab);
jfrm . add (ajtf);

jfrm . add (bjtf);
jfrm . add (button);
jfrm . add (alab);
jfrm . add (blab);
jfrm . add (anslab);
ActionListener l = new ActionListner () {
        public void actionPerformed (action eventent) {
            System. out. println ("action event from a
                        text field ");

        }
    };
ajtf . add action listines (l);
bjtf . add action istiner (l);
button . addaction listener (new action listner() {
        public void action performed (action event eut) {
            try {
                int a = integer . parse int (ajtf . get text ());
                int b = integer . parse int (bjtf . get text ());
                int ans = a/b;
                alab. set text ("\n A = " + a);
                blab. set text ("\n B = " + B);
                anslab. set Text ("\n Ans = " + ans);

            }
            catch (NumberFormatException e) {
                alab . set text (" ");
                blab . set text (" ");
                anslab. set test (" ");
                err. set text (" ");
```

```
        }
        catch (Aethimetic exception e) {
                alab. setText(" ");
                blab. setText(" ");
                anslab. setText(" ");
                err. setText ("B should be non zero ");
        }
    }
});
jfrm .set visible (true);
}
public static void main (String [] args) {
        swing Utilities . invoke Later(new Runnable (){
                public void run() {
                        new Swingdemo ();
                }
        });
    }
}
```

WEEK 9

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O/P