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9) Write a program that creates a user interface to perform integer divisions. The
user enters two numbers in the text fields, 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 a
NumberFormatException. If Num2 were Zero, the program would throw an
Arithmetic Exception Display the exception in a message dialog box.
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
class SwingDemo {
  SwingDemo() {
    JFrame jfrm = new JFrame("Divider App");
    jfrm.setSize(300, 250);
    jfrm.setLayout(new FlowLayout());
    jfrm.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    JLabel nameLabel = new JLabel("Name: Aarusha GP, USN: 1BM23CS005"); // Display name and
USN
    JLabel jlab = new JLabel("Enter the divisor and dividend:");
    JTextField aitf = new JTextField(8); // Input field for the dividend
    JTextField bitf = new JTextField(8); // Input field for the divisor
    JButton button = new JButton("Calculate"); // Button to perform the division
    JLabel err = new JLabel(); // Label to display errors
    JLabel alab = new JLabel(); // Label to display the first input (dividend)
    JLabel blab = new JLabel(); // Label to display the second input (divisor)
    JLabel anslab = new JLabel(); // Label to display the result
    jfrm.add(nameLabel); // Display name and USN once
    jfrm.add(jlab);
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jfrm.add(ajtf);
jfrm.add(bjtf);
jfrm.add(button);
jfrm.add(alab);
jfrm.add(blab);
jfrm.add(anslab);
jfrm.add(err);
button.addActionListener(new ActionListener() {
  public void actionPerformed(ActionEvent evt) {
    try {
      int a = Integer.parseInt(ajtf.getText());
      int b = Integer.parseInt(bjtf.getText());
      int ans = a / b;
      alab.setText("A = " + a);
      blab.setText("B = " + b);
      anslab.setText("Result: " + ans);
      err.setText("");
    } catch (NumberFormatException e) {
      // Handle non-integer input
      alab.setText("");
      blab.setText("");
      anslab.setText("");
      err.setText("Error: Please enter valid integers!");
    } catch (ArithmeticException e) {
      alab.setText("");
      blab.setText("");
      anslab.setText("");
      err.setText("Error: B should be NON zero!");
    }
```

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}
     });
     jfrm.setVisible(true);
  }
  public static void main(String args[]) {
     SwingUtilities.invokeLater(new Runnable() {
        public void run() {
           new SwingDemo();
        }
     });
  }
}
OUTPUT:
  Name: Aarusha GP, USN: 1BM23CS005 Enter the divisor and dividend: 22
                                                                          11
                                                                                                     A = 22 B = 11 Result: 2
  Name: Aarusha GP, USN: 1BM23CS005 Enter the divisor and dividend: ABC
                                                                                            Error: Please enter valid integers!
  Name: Aarusha GP, USN: 1BM23CS005 Enter the divisor and dividend: 10
```