LAB - 10 1BM19CS022

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

class Mydialog extends Dialog implements ActionListener
{
  DivisionInteger dd;
  Mydialog (parentFrame, String title)
  {
    super (parent, title, false);
    dd = (DivisionInteger) parent;
    setLayout (new FlowLayout ());
    setSize (500, 500);
    add (new Label (dd.msg));
    Button b = new Button ("close");
    add (b);
    b.actionListener (this);
  {
  public void actionPerformed (ActionEvent ae) {
    dispose();
  {
{
public class DivisionInteger extends Frame implements
  ActionListener {
  TextField num1TextField;
  TextField num2TextField;
  Button calculate;
  int a,b;
  float result;
  String msg = "Enter the numbers";
```

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```
public DivisionInteger() {
    setLayout(new FlowLayout());

    calculate = new Button("Result");
    num1TextField = new TextField(8);
    Label num1Label = new Label("Number 1",
                                Label.RIGHT);
    num2TextField = new TextField(8);
    Label num2Label = new Label("Number 2",
                                Label.Right);

    add(num1Label);
    add(num2Label);
    add(num1TextField);
    add(num2TextField);
    add(calculate);
    num1TextField.addActionListner(this);
    num2TextField.addActionListner(this);

public void actionPerformed(ActionEvent ae) {

    try {
        result = divideNumbers();
        msg = "The result is " + result;
        repaint();
    }
    catch(NumberFormatException e) {
        msg = "Number is not integer" + e;
        repaint();
    }
```

```
Catch (ArithmaticException e) {
  msg = "divide by zero" +e;
  repaint();
{
MyDialog md = new MyDialog (this, "Dialog");
  md.setVisible(true);
{
public float divideNumbers() {

  a: Integer.parseInt (num1Textfield.getText());
  b: Integer.parsInt (num2Textfield.getText());

  if (b==0){
    throw new ArithmaticException();
    {
    return (float)a/b;
    {

public void paint (Graphic g)
  g.drawString (msg, 50, 100);
{

public static void main (String args[]) {
  DivisionInteger div = new DivisionInteger();
  div.setSize (new dimension (1000, 1000));
  div.setTitle ("calculator");
  div.setVisible (true);
  {
```

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```
class MyWindowAdapter extend windowAdapter{
    public void windowClosing(WindowEvent e){
        System.exit(0);
    {
{
```