1BM19CS168
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3rd sem 'D' section

Lab - Program 10

```
import java.awt.*;
import java.awt.event.*;
class DialogBox extends Dialog implements ActionListener
{
  Labprogram10 l;
  DialogBox(Frame Parent, String title)
   { Super(parent, title, false);
     l = (Labprogram10)parent;
     setLayout(new FlowLayout());
     setSize(250, 100);
     add(new Label(l.msg));
     Button b= new Button("Ok");
     add(b);
     b.action
     b.addActionListener(this);
   }
  public void actionPerformed(ActionEvent ae).
     { dispose();
     }
}
public class Labprogram10 extends Frame implements
  ActionListener{
  Textfield num1, num2, res;
  String num3;
  Button div;
  String msg = "";
```

```
public Labprogram10()
{
  setLayout(new FlowLayout());
  num1 = new TextField(12);
  num2 = new TextField(10);
  res = new TextField(8);
  Label number1 = new Label("Num1:", Label.RIGHT);
  Label number2 = new Label("Num2:", Label.RIGHT);
  Label result = new Label("Result:", Label.RIGHT);
  div = new Button("Divide");
  add(number1);
  add(num1);
  add(number2);
  add(num2);
  add(div);
  add(result);
  add(res);
  num1.addActionListener(this);
  num2.addActionListener(this);
  div.addActionListener(this);
  res.addActionListener(this);
  addWindowListener(new WindowAdapter(){
  public void windowClosing(WindowEvent e){
  System.exit(0);
  }
  });
}
```

```
public void actionPerformed (ActionEvent ae)
{ String s = ae.getActionCommand();
  if(s.equals("Divide"))
    res.setText(divide());
}

String divide()
{ int n;
  int n1, n2;
  try{
  n1 = Integer.parseInt(num1.getText());
  n2 = Integer.parseInt(num2.getText());
  try {
      n = n1/n2;
      num3 = String.valueOf(n);
      return num3;
    }
  catch (ArithmeticException e)
    {
      msg = "Cannot divide Num1 by zero";
      DialogBox d = new Dialogbox(this, Exception
      d.setVisible(true);          message box");
      return "";
    }
}
catch (NumberFormatException nf)
  { msg = "The input numbers should be integers";
```

```
DialogBox d = new DialogBox(this, "Exception message box");
        d.setVisible(true);
        return "";
    }
}

public static void main(String[] args)
{
    Labprogram10 appwin = new Labprogram10();
    appwin.setSize(new Dimension(380,180));
    appwin.setTitle("Division");
    appwin.setVisible(true);
}
}
```