18-01-21

POOJA.K

Lab Program 10

1BM19CS111

```
//Division user interface program.

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

public class Divisions extends Frame implements
 ActionListener
 {
    Dialog d;
    TextField Num1, Num2, result;
    Button Divide;

  public Divisions()
   {
    setLayout(new FlowLayout());
    setSize(500, 500);
   Num1 = new TextField(10);
   Num2 = new TextField(10);
    result = new TextField(10);
  Divide = new Button("DIVIDE");
  add(new Label("Enter 1st number : "));
  add(Num1);
  add(new Label("Enter 2nd number :"));
  add(Num2);
  add(new Label("Result : "));
  add(result);
  add(Divide);
```

```
Divide.addActionListener(this);
setVisible(true);
addWindowListener(new MyWindowAdapter());
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource() == Divide)
    {
     try
        {
        result.setText(Integer.toString((Integer.
parseInt(Num1.getText().trim())) / (Integer.
parseInt(Num2.getText().trim()))));
        }

  catch(ArithmeticException acx)
   {
   Dia d1 = new Dia("Arithmetic Exception");
   d1.setVisible(true);
   }

 catch(NumberFormatException nfe)
    {
    Dia d2 = new Dia("Number format Exception");
     d2.setVisible(true);
    }
}

public static void main(String args[])
 {
     new Divisions();
 }
```

```
class Dia extends Dialog implements
ActionListener
{
Button ok;

Dia(String str)
 {
  super(new Frame(),str,true);
  ok = new Button ("OK");
  setLayout (new FlowLayout());
  setSize (300,200);
  add(ok);
  ok.addActionListener(this);
  addWindowListener (new MyWindowAdapter());
 }

 public void actionPerformed (ActionEvent ae)
  {
   setVisible(true);
  }

 class MyWindowAdapter extends WindowAdapter {
public void windowClosing (WindowEvent we)
   {
    System.exit(0);
   }
  }
}
```

*Divisions.java - Notepad

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```
import java.awt.*;

import java.awt.event.*;

public class Divisions extends Frame implements ActionListener

{

        Dialog d;
        TextField Num1,Num2,result;
        Button Divide;
        public Divisions()

        {

                setLayout(new FlowLayout());
                setSize(500,500);
                Num1=new TextField(10);
                Num2=new TextField(10);
                result=new TextField(10);
                Divide=new Button("DIVIDE ");
                add(new Label("Enter 1st number : "));
                add(Num1);
                add(new Label("Enter 2nd nummber: "));
                add(Num2);
                add(new Label("Result  : "));
                add(result);
                add(Divide);
                Divide.addActionListener(this);
                setVisible(true);
              addWindowListener(new MyWindowAdapter());
        }
```

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*Divisions.java - Notepad

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```
public void actionPerformed(ActionEvent ae)

{
            if(ae.getSource()==Divide)

            {    try

                  {

               result.setText(Integer.toString((Integer.parseInt(Num1.getText().trim()))/(Integer.parseInt(Num2.getText().trim()))));
                   }

                        catch(ArithmeticException aex)

                        { Dia d1=new Dia("Arithmetic Exception");

                           d1.setVisible(true);

                        }

                        catch(NumberFormatException nfe)

                        {

                                    Dia d2=new Dia("Number Format Exception ");

                                    d2.setVisible(true);
                              }

            }

}
```

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*Divisions.java - Notepad

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```
            public static void main(String args[])

            {

                        new Divisions();

            }

}

class Dia extends Dialog implements ActionListener

{
Button ok;
 Dia(String str)

            {

                 super(new Frame(),str,true);

                        ok=new Button("OK");

                        setLayout(new FlowLayout());

                        setSize(300,200);
                        add(ok);
                       ok.addActionListener(this);
                       addWindowListener(new MyWindowAdapter());
            }

          public void actionPerformed(ActionEvent ae)
```

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```
                    ok=new Button("OK");

                    setLayout(new FlowLayout());

                    setSize(300,200);
                    add(ok);
                  ok.addActionListener(this);
                  addWindowListener(new MyWindowAdapter());
          }

         public void actionPerformed(ActionEvent ae)

          {

                    setVisible(true);
                     dispose();

          }


class  MyWindowAdapter extends WindowAdapter{
public void windowClosing(WindowEvent we)
{

System.exit(0);

}
}

}
```

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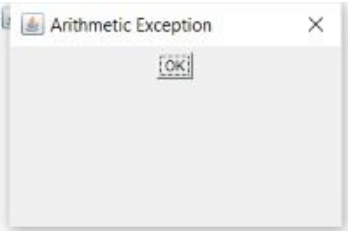
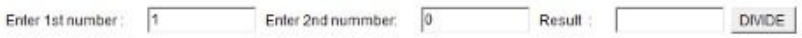

Arithmetic Exception
OK


Enter 1st number :
1
Enter 2nd nummber:
0
Result :
DIVIDE

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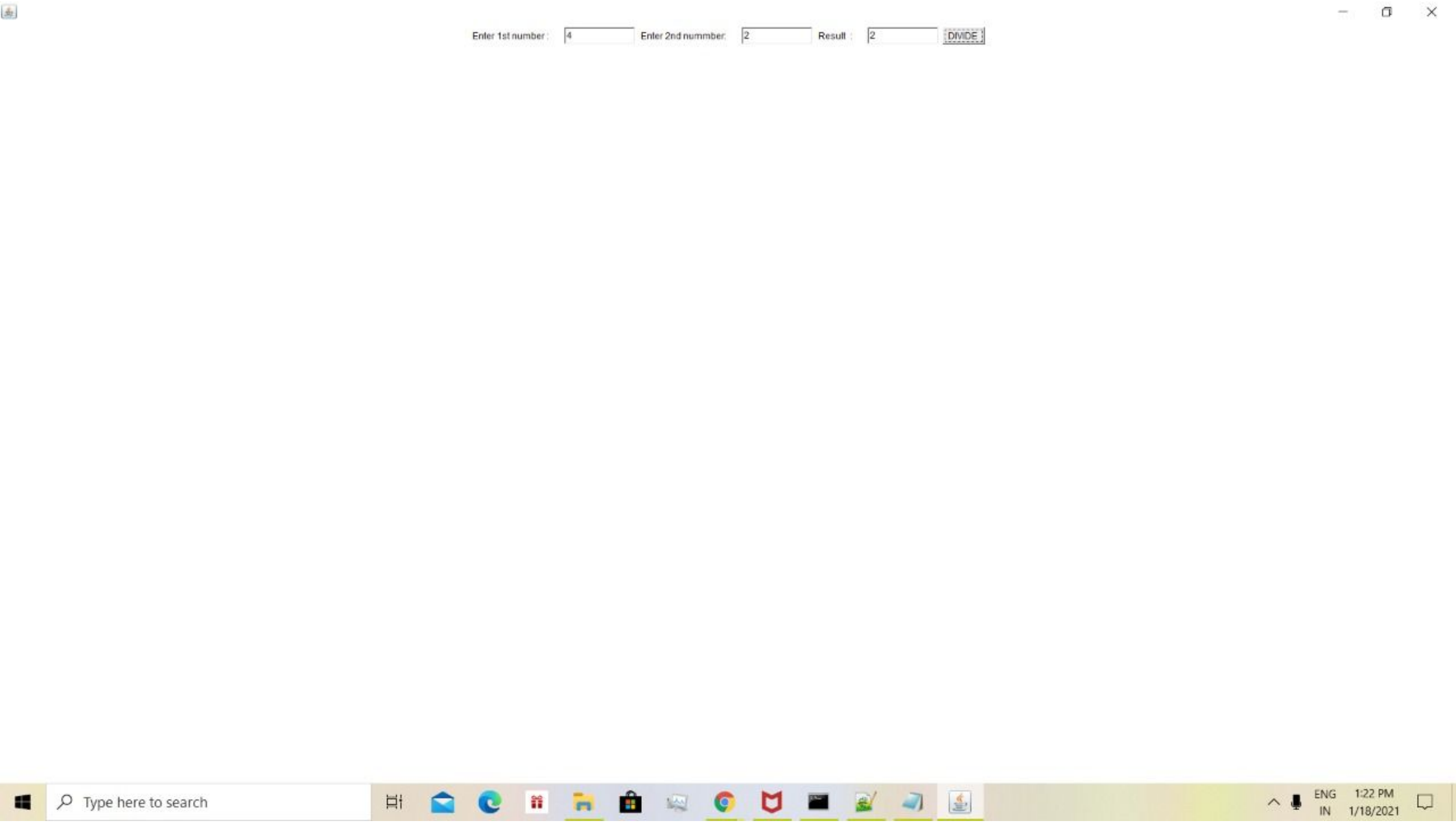
Enter 1st number :
4
Enter 2nd nummber:
2
Result :
2
DIVIDE
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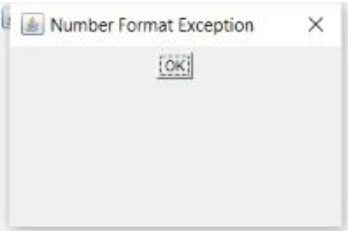

Enter 1st number : 1.2 Enter 2nd nummber: yui Result : 2 DIVIDE

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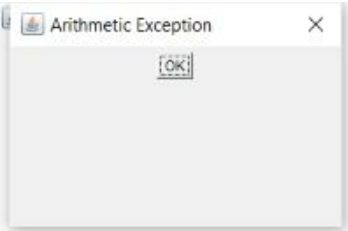

Enter 1st number : 1 Enter 2nd nummber: 0 Result : DIVIDE

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