

2024/02/20
Tuesday

Lab → 9

classmate

Date _____

Page _____

WAP that creates a user Interface to perform Integer divisions. The user enters two no in the text field, Num 1 & Num 2. The division of Num 1 & Num 2 is displayed in the Result field when Divide button is clicked.

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

```
public class Division main extends Frame  
implements ActionListener  
{
```

```
    Text Field num1, num2;
```

```
    Button divResult;
```

```
    Label out Result;
```

```
    String out = " ";
```

```
    double resultNum;
```

```
    int flag = 0;
```

```
    public Division main ()
```

```
{
```

```
    setLayout (new FlowLayout());
```

```
    divResult = new Button ("RESULT");
```

```
    Label number1 = new Label ("Number 1:", Label.  
                                RIGHT);
```

```
Label Number 2 = new JLabel("Number 2",
                                JLabel.RIGHT);
Num 1 = new JTextField(5);
Num 2 = new JTextField(5);
Out Result = new JLabel("Result:",
                        JLabel.RIGHT);
```

```
Add (Number 1)
Add (Number 2);
Add (Number 2);
Add (Out Result);
Add (Out Result);
Num 1. addActionListener (this);
Num 2. addActionListener (this);
Out Result. addActionListener (this);
Add Window Listener (new Window
                        Adapter ())
```

```
{
```

```
    public void windowClosing
    (WindowEvent we)
```

```
{
```

```
    System.exit(0);
```

```
}
```

```
});
```

```
}
```



```
public void actionPerforms(ActionEvent ae)
{
```

```
    int n1, n2;
```

```
    try
```

```
    {
```

```
        if (ae.getSource() == dResult)
```

```
        {
```

```
            n1 = Integer.parseInt(num1.getText());
```

```
            n2 = Integer.parseInt(num2.getText());
```

```
            /* if (n2 == 0)
```

```
                throw new ArithmeticException();
```

```
            out = n1 + " * " + n2;
```

```
            resultNum = n1 * n2;
```

```
            out += String.valueOf(resultNum);
```

```
            repaint();
```

```
        }
```

```
    }
```

```
    catch (NumberFormatException e1)
```

```
    {
```

```
        flag = 1;
```

```
        out = "Number Format Exception!";
```

```
        repaint();
```

```
    } }
```

```
public void paint(Graphics g)
```

```
{  
    if(flag == 0)
```

```
    {  
        g.drawString(out, out + result.get x()
```

```
        + out + result.get width(), out + result
```

```
        .get y() + out + result + "get Height() - f);  
    }  
    else
```

```
    {  
        g.drawString(out, 100, 200);  
        flag = 0;
```

```
    }  
}
```

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

```
{
```

```
    Division main = dm = new Division main();
```

```
    dm.setSize(new Dimension(600, 400);
```

```
    dm.setTitle("Division of Integers");
```

```
    dm.setVisible(true);
```

```
    }  
}
```

```
}
```


Output:

Number 1: 10

Number 2: 5

Result: 1052.0

Number 1: 20

Number 2: 2

Result: 20210.0

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20/2/2024