

23.02.24

## PROGRAM-9

Write a program that creates a user interface to perform integer division. Input will be taken from two text fields and output will be displayed in a label.

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

class SwingDemo {
    SwingDemo() {
        JFrame jfrm = new JFrame("Divide App");
        jfrm.setSize(250, 150);
        jfrm.setLayout(new FlowLayout());
        jfrm.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        JLabel jlab = new JLabel("Enter the divisor and dividend:");
        JTextField ajtf = new JTextField(8);
        JTextField bjtf = new JTextField(8);
        JButton button = new JButton("Calculate");

        JLabel cur = new JLabel();
        JLabel alab = new JLabel();
        JLabel blab = new JLabel();
        JLabel anolab = new JLabel();

        jfrm.add(cur);
        jfrm.add(jlab);
        jfrm.add(ajtf);
        jfrm.add(bjtf);
        jfrm.add(button);
        jfrm.add(alab);
```

M	T	W	T	F	S
Date	20				
Page No.	A-4				

```

if(jfug.add(blab));
jfug.add(fanlab); //initialization
    (A) button and ID

```

```
ActionListener l = new ActionListener() {
```

```
public void actionPerformed(ActionEvent evt) {
```

```
: (A) class ID and ActionListener("Action event from text field");
```

```
}
```

```
};
```

```
atjf.addActionListener(l);
```

```
bjtf.addActionListener(l); //button and ID
```

```
button.addActionListener(new ActionListener() {
```

```
public void actionPerformed(ActionEvent evt) {
```

```
if(jfug.getText().equals("0")) JOptionPane.showMessageDialog(null, "Input A is zero");
```

```
int a=Integer.parseInt(jfug.getText());
```

```
int b=Integer.parseInt(bjtf.getText());
```

```
if(b==0) {
```

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

```
}
```

```
int ans=a/b;
```

```
alab.setText("In A = "+a);
```

```
blab.setText("In B = "+b);
```

```
anolab.setText("In Ans = "+ans);
```

```
err.setText("");
```

```
} : position from which we are returning
```

```
} catch(NumberFormatException e) {
```

```
} alab.setText(" ");
```

```
blab.setText(" ");
```

```
anolab.setText(" ");
```

```
err.setText("Enter only integers!");
```

```
return
```

```
g.setVisible(true);
```

```

    } catch (ArithmaticException e) {
        lab1.setText("");
        lab2.setText("A");
        if (e.getMessage().equals("NON zero!"))
            lab3.setText("B is Nonzero");
    }
}

```

```

} ;
if (j <= 10)
    j++;
else
    break;
}
public static void main (String args[])
{
    System.out.println("Enter A and B");
    Scanner s = new Scanner (System.in);
    A = s.nextInt();
    B = s.nextInt();
}

```

```

} ;
if (A <= 0 || B <= 0)
    System.out.println("A and B must be positive");
}

```

Output:

enter the dividend and divisor :

[A] [1] [2] [3] [4] [5] [6] [7] [8]

[B] [1] [2] [3] [4] [5] [6] [7] [8]

calculate

error message

A=10, B=2, (A/B)=5.0000000000000005

B=2

Ans=5

2  
2  
2



# Divider app

Enter only Integers!

Enter the divider and dividend:

10

---

a

---

Calculate

Hamsika [1BM22CS054]



# Divider app

B should be NON zero!

Enter the divider and dividend: 10

0

Calculate

Arugunta Hamsika [1BM22CS054]



# Divider app

Enter the divider and dividend:

10

1

Calculate

A= 10 B= 1

Ans= 10 hamsika [1BM22CS054]