Q} Write a program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a NumberFormatException. If Num2 were Zero, the program would throw an Arithmetic Exception Display the exception in a message dialog box.

OBSERVATION:

by wite a sprogram that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num & Num.

The division of Num! & Nume is displayed in the Result field when the Divide button is clicked. If Num 1 or Num 2 were not an integer, the program would throw a Number Formal exception. If Num 2 were zero, the program would throw an exception of Num 2 were exception.

The Num 2 were zero, the program would throw an exception of Number formal exception.

import java.awt. +;
import java.awt. event. +;

class Division Main 1 extends Frame implements action Listener ?

Text Field num 1, num 2;

Button dResult;

Lakel out Result;

String out = 60;

double rusult Num;

Prt flag = 0;

```
rum1 = new Textfield (5);
 rum 2= new Text Field (5).
                  Label (" ", Label Right):
outresult = new
add (number 1)
add (num.s);
add Crumber 2)
add crum D;
add (dresult);
add (out Result);
rum. add action Listener (this):
numi. add Action Listener (this),
dresult. add Action Listener (ohlis);
add wind owhisterer (new winds wadapter () {
     Rublic void window Closing (Windowsevent e)
           system. enit(0);
      4
  9);
      action Preformed Caction Event e) 1
void
  Pot na, na;
 try
    n' = Integer. parseInt ( num1. get Text ());
   n2= Totager . passe Int (rum s. get Text())
  4 (n==0)1
               new Arithmetic Exception ()
 resultation = (double) n2/ nai
 put += resultNum;
```

```
catch (NumberFormal Exception e1) 1
          flag = 1;
           out = " Number Format Exception! " +
                       ci. getMersage();
catch (ArithmeticException e1) {
            out = "Divide by o Exception)," +e1. getMessage();
       outresult . retfert (out);
        invalidate ();
       validate ():
3
public class main &
       p.svmc 21
       Division Main Los obj = new Division Main 1 ();
       obj-sitsize (new Dimension 1860, 400) 7;
       Obj. Set little ("Division of Integers")
       obj. set Misible (tre);
               By nontimized void box (B a) of
 3
 Sample outputs 5:
                        (Button Pressed)
                    Number 2:4 Result: 20/4 5.0
 Number 1: 20
 Number: 10 Number: 0 Result: prode by 0
                         enception! / by zero.
Number 1: abc Number 1: 5 Result:
    Number Format inception! For input string; stabill
```

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

```
class DivisionMain1 extends Frame implements ActionListener {
    TextField num1, num2;
    Button dResult;
    Label outResult;
    String out = "";
    double resultNum;
    int flag = 0;
    public DivisionMain1() {
        setLayout(new FlowLayout());
        dResult = new Button("Result:");
        Label number1 = new Label("Number 1:", Label.RIGHT);
        Label number2 = new Label("Number 2:", Label.RIGHT);
        num1 = new TextField(5);
        num2 = new TextField(5);
        outResult = new Label("", Label.RIGHT);
        add(number1);
        add(num1);
        add(number2);
        add(num2);
        add(dResult);
        add(outResult);
        num1.addActionListener(this);
        num2.addActionListener(this);
        dResult.addActionListener(this);
        addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent e) {
                System.exit(0);
            }
        });
    }
    public void actionPerformed(ActionEvent e) {
        int n1, n2;
        try {
            if (e.getSource() == dResult) {
                n1 = Integer.parseInt(num1.getText());
                n2 = Integer.parseInt(num2.getText());
                if (n2 == 0) {
                    throw new ArithmeticException();
                }
                out = n1 + "/" + n2 + " ";
                resultNum = (double) n1 / n2;
                out += resultNum;
```

```
}
        } catch (NumberFormatException e1) {
            flag = 1;
            out = "Number Format Exception! " + e1.getMessage();
        } catch (ArithmeticException e1) {
            flag = 1;
            out = "Divide by 0 Exception! " + e1.getMessage();
        outResult.setText(out);
        invalidate();
        validate();
    }
}
public class Main {
    public static void main(String args[]) {
        DivisionMain1 obj = new DivisionMain1();
        obj.setSize(new Dimension(800, 400));
        obj.setTitle("DivisionOfIntegers");
        obj.setVisible(true);
    }
}
```

//output

