OOJ LAB PROGRAM 10 EXECUTION:-

```
import java.awt.*;
import java.awt.event.*;
class NumException extends Exception{
    public String toString()
    {
        return "There is an Arithmetic Exception.";
    }
3class FormatException extends Exception{
    public String toString()
        return "There is an Format Exception.";
- }
public class dividenums extends Frame implements ActionListener{
    TextField num1, num2;
    Button div;
    double result;
    String msg="The result is: 0.0";
    public dividenums()
        setLayout (new FlowLayout());
        Label num1n= new Label("Numerator: ",Label.RIGHT);
        Label num2n= new Label ("Denominator: ", Label.RIGHT);
        Button div= new Button ("Divide");
        numl=new TextField(5);
        num2=new TextField(5);
        add(numln);
        add(num1);
        add (num2n);
        add (num2);
        add(div);
```

```
numl.addActionListener(this);
    num2.addActionListener(this);
    div.addActionListener(this);
    addWindowListener(new WindowAdapter()
        public void windowClosing(WindowEvent we)
        {
            System.exit(0);
    });
public boolean isDouble (double num)
    double dec;
    dec=num-(int) num;
    if (dec==0.0)
        return false;
    else
        return true;
public double divide (double a, double b) throws NumException, FormatException
    if (b==0.0)
        throw new NumException();
    else if(isDouble(a) || isDouble(b))
        throw new FormatException();
    return (double) a/b;
```

```
public void actionPerformed(ActionEvent ae)
    double a,b;
    a=Double.parseDouble(numl.getText());
    b=Double.parseDouble(num2.getText());
    result=divide(a,b);
    msg=("The result is: "+result);
    catch (NumException ne)
        msg=ne.toString();
    catch (FormatException fe)
        msg=fe.toString();
    repaint();
public void paint (Graphics g)
    g.drawString(msg, 50, 150);
public static void main(String args[])
    dividenums appwin= new dividenums();
    appwin.setSize(new Dimension(350,300));
    appwin.setTitle("Divide Two Numbers");
    appwin.setVisible(true);
```

OUTPUT:-

DESCRIPTION WAS INCOME.





