LABPROGRAM – 10 (21/12/2020)

Q) DIALOGUE BOX

```java
/*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.*/

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

public class buttondiv extends Frame implements ActionListener{
    String click;
    Button result;
    TextField num1,num2,answer;

    public buttondiv(){
        setLayout(new FlowLayout());
        result = new Button("Result");
        Label namenum1 = new Label("NUM1 : ", Label.RIGHT);
        Label namenum2 = new Label("NUM2 : ", Label.RIGHT);
        num1 = new TextField(12);
        num2 = new TextField(12);
        add(namenum1);
        add(num1);
        add(namenum2);
        add(num2);
        add(result);
        /*int n1 = Integer.parseInt(num1.getText());
        int n2 = Integer.parseInt(num1.getText());*/
        /*int k = c1(n1,n2);*/
        num1.addActionListener(this);
        num2.addActionListener(this);
        result.addActionListener(this);


        addWindowListener(new WindowAdapter(){
            public void windowClosing(WindowEvent we){
                System.exit(0);
            }
        });
    }

  /* public int  c1(int num1, int num2) {
        return num1/num2;
    }*/
```

```java
    public void actionPerformed(ActionEvent ae){
        if(ae.getActionCommand().equals("Result")){
            click = ae.getActionCommand();
            repaint();
        }
    }
    public void paint(Graphics g){
        g.drawString("CALCULATED ",40,100);
        g.drawString("--------------------------------",40,110);
        g.drawString("NUMBER 1 : " + num1.getText(), 40, 120);
        g.drawString("NUMBER 2 : " + num2.getText(), 40, 140);
        if(num1.getText().equals("")&&num2.getText().equals("")){

        }
        else {
            Integer i1 = new Integer(num1.getText());
            Integer i2 = new Integer(num2.getText());
            try{
                float divide = (float) i1 / (float) i2;
                if(click.equals("Result")){
                    g.drawString("DIVISION OF (num 1)/(num 2) : "+divide,40,160);
                    g.drawString("--------------------------------",40,170);
                }
            }catch(ArithmeticException e){
                System.out.println("NUMBER 2 IS ZERO CAN'T DIVIDE");
            }

        }

    }

    public static void main(String[] args){
        buttondiv appwin = new buttondiv();
        appwin.setSize(new Dimension(250,150));
        appwin.setTitle("DIVISION PORTAL");
        appwin.setVisible(true);
    }
}
```

OUTPUT

DIVISION ...

Dividend   [50]   Divisor

Op[5]   Result

[10.0]   Click