USN:1BM19CS216

Name: Yashaswini Shah

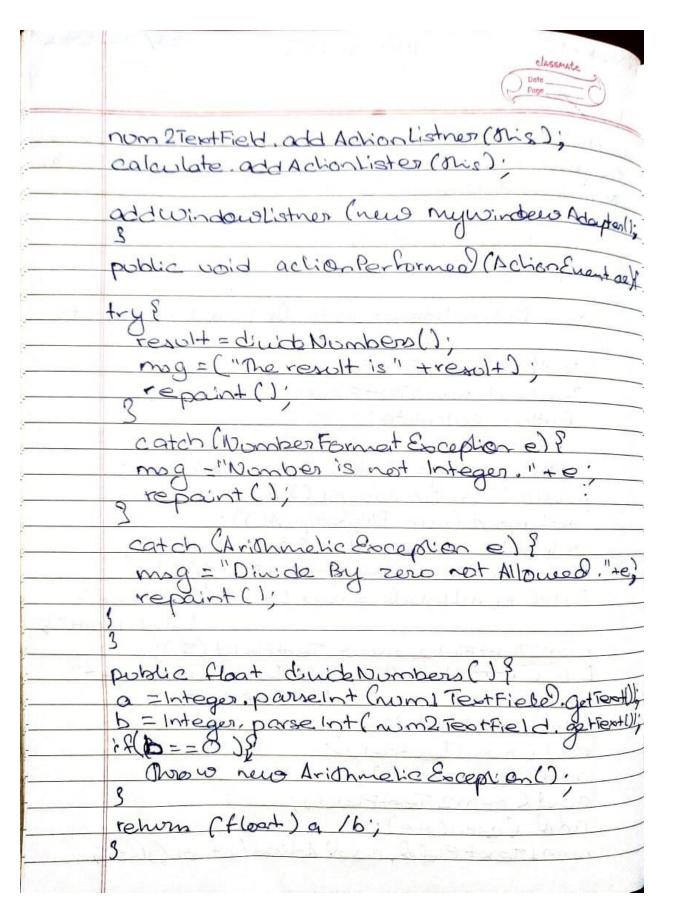
Date:23-01-2021

Lab Program 10:

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.

Lab 10:

was shat creates a user interfere integer duisions. The user enters two numbers in the text holds Nont and Num2. The division import java. aut. *; import jang, aut, event. " class Division Integer extends Frame inflements Textfield numIText Field; Textfield num2Textfield; Button calculate; int a, b; String may="Enter The numbers";
public DivisionInteger ()? getLayout (new FlowLayout()); calculate = new Button ("calculate"). numble of Field = new Text Field (5); Label numblabel = new Label ("Numbers I Label . RIGHT); num2TextField = new TextField (5); Label num 2 Label = new Label ("Number 2" Label RIGHT); add (numstabel); add (numlTextField); add Chamzlabel); add (wm2 Teatfield); add (calculate): num 1 Text Field, add Action Listness (this)



Classmate Page
public void paint (braphics g)? g. draws String (msg. 50:100);
public static void moun (String args [])? Division Integer div = new division Integer (1; div. setsix (new Division (500,500).
div. set Visible (true):
B class mywindow Adapter extends window Street poblic world window Closing (window Event event)?
System.exit(0);

```
import java.awt.*;
import java.awt.event.*;
class DivisionInteger extends Frame implements ActionListener{
   TextField num1TextField;
   TextField num2TextField:
   Button calculate;
   int a,b;
   float result;
   String msg="Enter the numbers";
   public DivisionInteger() {
        setLayout(new FlowLayout());
       calculate=new Button("Calculate");
       num1TextField=new TextField(5);
       Label num1Label=new Label("Number 1", Label.RIGHT);
       num2TextField=new TextField(5);
       Label num2Label=new Label("Number 2", Label.RIGHT);
       add(num1Label);
       add(num1TextField);
       add(num2Label);
       add(num2TextField);
       add(calculate);
       num1TextField.addActionListener(this);
        num2TextField.addActionListener(this);
        calculate.addActionListener(this);
        addWindowListener(new MyWindowAdapter());
   public void actionPerformed(ActionEvent ae) {
            result=divideNumbers();
           msg=("The result is "+result);
            repaint();
        }catch (NumberFormatException e) {
            msg="Number is not Integer."+e;
            repaint();
        }catch(ArithmeticException e) {
```

```
msg="Divide By zero not Allowed."+e;
        repaint();
public float divideNumbers() {
    a=Integer.parseInt(num1TextField.getText());
    b=Integer.parseInt(num2TextField.getText());
    if(b==0){
        throw new ArithmeticException();
    return (float)a/b;
public void paint(Graphics g) {
    g.drawString(msg,50,100);
public static void main(String args[]) {
    DivisionInteger div=new DivisionInteger();
    div.setTitle("Division Calculater");
    div.setVisible(true);
public void windowClosing(WindowEvent event) {
   System.exit(0);
```

OUTPUT:

