```
/*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.*;
class lab10 extends Frame implements ActionListener{
TextField Num1,Num2;
Button divide = new Button("Divide");
float res = 0;
String error = "";
public lab10(){
setLayout(new FlowLayout());
Num1 = new TextField(1);
Num2 = new TextField(1);
Label Num1L = new Label("Num1: ", Label.RIGHT);
Label Num2L = new Label("Num2: ", Label.RIGHT);
add(Num1L);
add(Num1);
add(Num2L);
add(Num2);
add(divide);
divide.addActionListener(this);
addWindowListener(new WinAdapter());
}
public void actionPerformed(ActionEvent ae){
if(ae.getSource() == divide){
try{
int n1 = Integer.parseInt(Num1.getText());
int n2 = Integer.parseInt(Num2.getText());
if(n2 <= 0)
throw new ArithmeticException("Error");
res = (float)n1/n2;
}catch(NumberFormatException exception){
res = 0;
error = "Please enter an integer!!";
}catch(ArithmeticException exception){
res = 0;
error = "Can not divide by zero!!";
```
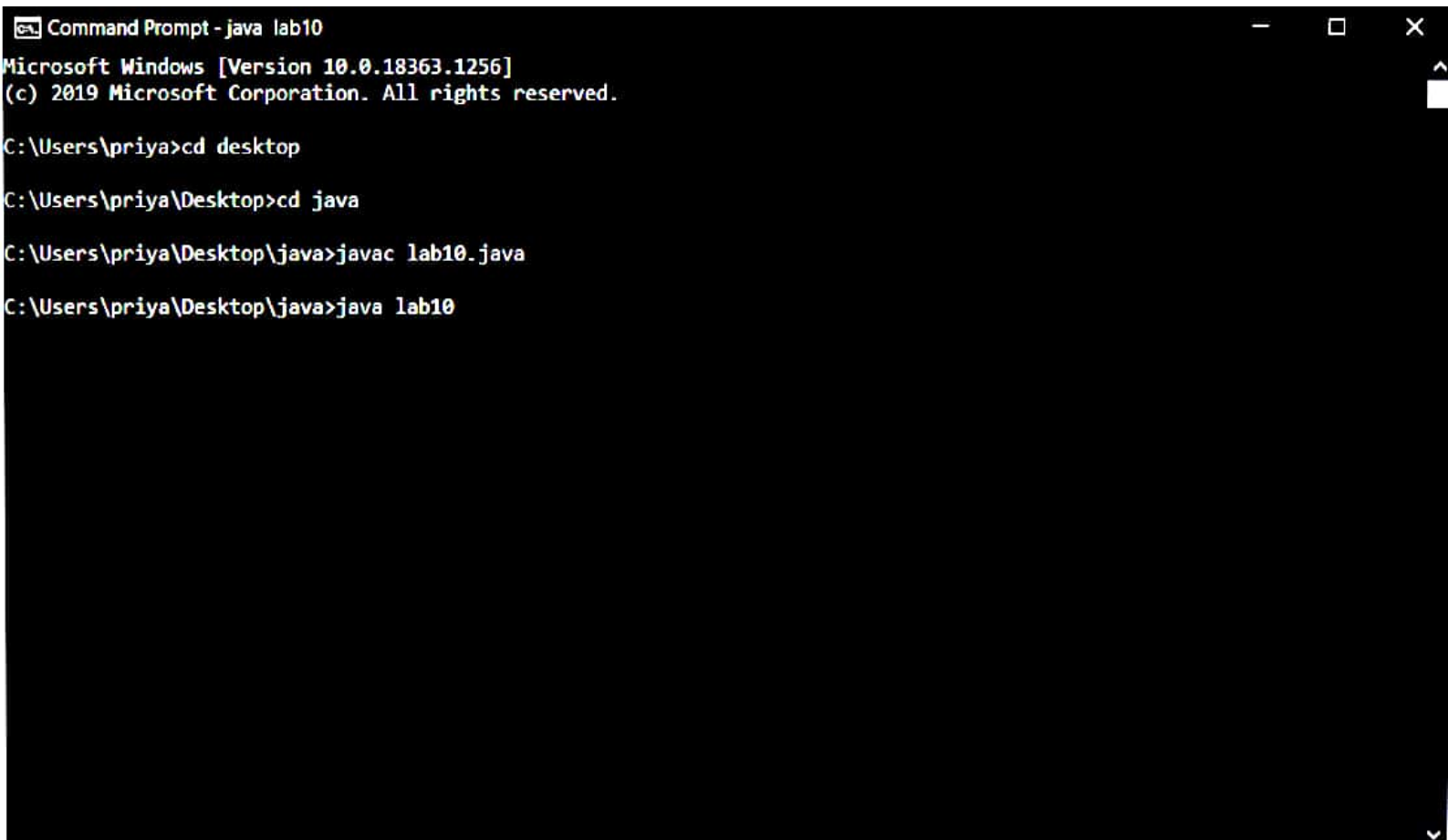<

```java
add(Num1L);
add(Num1);
add(Num2L);
add(Num2);
add(divide);
divide.addActionListener(this);
addWindowListener(new WinAdapter());
}
public void actionPerformed(ActionEvent ae){
if(ae.getSource() == divide){
try{
int n1 = Integer.parseInt(Num1.getText());
int n2 = Integer.parseInt(Num2.getText());
if(n2 <= 0)
throw new ArithmeticException("Error");
res = (float)n1/n2;
}catch(NumberFormatException exception){
res = 0;
error = "Please enter an integer!!";
}catch(ArithmeticException exception){
res = 0;
error = "Can not divide by zero!!";
}
repaint();
}
}
public void paint(Graphics g){
g.drawString("Result: " + String.valueOf(res), 20, 100);
g.drawString("Error: " + error, 20, 150);
}
public static void main(String[] args) {
lab10 p = new lab10();
p.setSize(new Dimension(400,250));
p.setTitle("Divide");
p.setVisible(true);
}
}
class WinAdapter extends WindowAdapter{
public void windowClosing(WindowEvent we){
System.exit(0);
}
}
```

```
Command Prompt - java lab10

Microsoft Windows [Version 10.0.18363.1256]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\priya>cd desktop

C:\Users\priya\Desktop>cd java

C:\Users\priya\Desktop\java>javac lab10.java

C:\Users\priya\Desktop\java>java lab10
```

```
Command Prompt - java lab10                                    —    □    ✕

Microsoft Windows [Version 10.0.18363.1256]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\priya>cd desktop

C:\Users\priya\Desktop>cd java

C:\Users\priya\Desktop\java>javac lab10.java

C:\Users\priya\Desktop\java>java lab10
```

Divide — □ ✕

Num1: 2   Num2: 6   Divide

Result: 0.33333334

Error: