Divider App — □ ✕

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Quick access

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⬇ Downloads 📌

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⟩ 💽 Local Disk (C:)

⟩ 💾 New Volume (D:)

⟩ 🖧 Network

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Name

Date modified

Thread2.class

DisplayThreads

BMSDisplayThread.class

CSEDisplayThread.class

DisplayThreads

12/3/2024 10:09 AM

12/3/2024 10:10 AM

12/3/...

CEASS File

C:\Windows\System32\cmd.exe - java SwingDemo

```
Microsoft Windows [Version 10.0.22000.2538]
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C:\Users\Admin\Downloads>javac SwingDemo.java
C:\Users\Admin\Downloads>java SwingDemo
```

```
Microsoft Windows [Version 10.0.22000.2538]
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C:\Users\Admin\Downloads>javac MainThread.java

C:\Users\Admin\Downloads>java MainThread
Main Thread
Main Thread
Main Thread
Main Thread
Main Thread
Main Thread
Main Thread
Main Thread
Main Thread
Main Thread
Child Thread
Child Thread
Child Thread
Child Thread
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Child Thread
Child Thread

C:\Users\Admin\Downloads>
```

Thread2.
DisplayThreads
BMSDisplayThread.class
CSEDisplayThread.class   12/3/2024 10:11 AM   CLASS File
DisplayThreads.class   12/3/2024 10:11 AM   CLASS File
SwingDemo   12/3/2024 10:11 AM   CLASS File
SwingDemo$1.class   12/3/2024 10:24 AM   IntelliJ IDEA Com...
SwingDemo$2.class   12/3/2024 10:24 AM   CLASS File
SwingDemo$3.class   12/3/2024 10:24 AM   CLASS File
SwingDemo.class   12/3/2024 10:24 AM   CLASS File
ed 1.60 KB   12/3/2024 10:24 AM   CLASS File

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.22000.2538]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin\Downloads>javac TestSynchronization2.java

C:\Users\Admin\Downloads>java TestSynchronization2
5
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25
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300
400
500

C:\Users\Admin\Downloads>
```

C:\Windows\System32\cmd.exe

rosoft Windows [Version 10.0.22000.2538]
Mic

C:\Users\Admin\Downloads>javac DemoJoin.java

C:\Users\Admin\Downloads>java DemoJoin
New thread:Thread[#30,One,5,main]
New thread:Thread[#31,Two,5,main]
New thread:Thread[#32,Three,5,main]
Thread One is alive:false
Thread Two is alive:false
Thread Three is alive:false
Waiting for threads to finish.
Thread One is alive:false
Thread Two is alive:false
Thread Three is alive:false
Main threads exiting.

C:\Users\Admin\Downloads>_

Thread2

DisplayThreads

BMSDisplayThread.class

CSEDisplayThread.class   12/3/2024 10:11 AM

DisplayThreads.class   12/3/2024 10:11 AM   CLASS File

SwingDemo   12/3/2024 10:11 AM   CLASS File   2 KB

SwingDemo$1.class   12/3/2024 10:24 AM   CLASS File   2 KB

SwingDemo$2.class   12/3/2024 10:24 AM   IntelliJ IDEA Com... 1 KB

SwingDemo$3.class   12/3/2024 10:24 AM   CLASS File   2 KB

SwingDemo.class   12/3/2024 10:24 AM   CLASS File   1 KB
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```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.22000.2538]
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C:\Users\Admin\Downloads>javac TestThread.java

C:\Users\Admin\Downloads>java TestThread
Thread:main,State:New
Thread:main,State:New
Thread: main, State: Start
Thread: main, State: Start
Thread:Thread-0,State:Running
Thread: main, State: Dead
Thread:Thread-1,State:Running
Thread: Thread-1, 4
Thread: Thread-0, 4
Thread: Thread-0, 3
Thread: Thread-0, 2
Thread: Thread-1, 3
Thread: Thread-0, 1
Thread: Thread-1, 2
Thread: Thread-1, 1
Thread:Thread-1,State:dead
Thread:Thread-0,State:dead

C:\Users\Admin\Downloads>
```
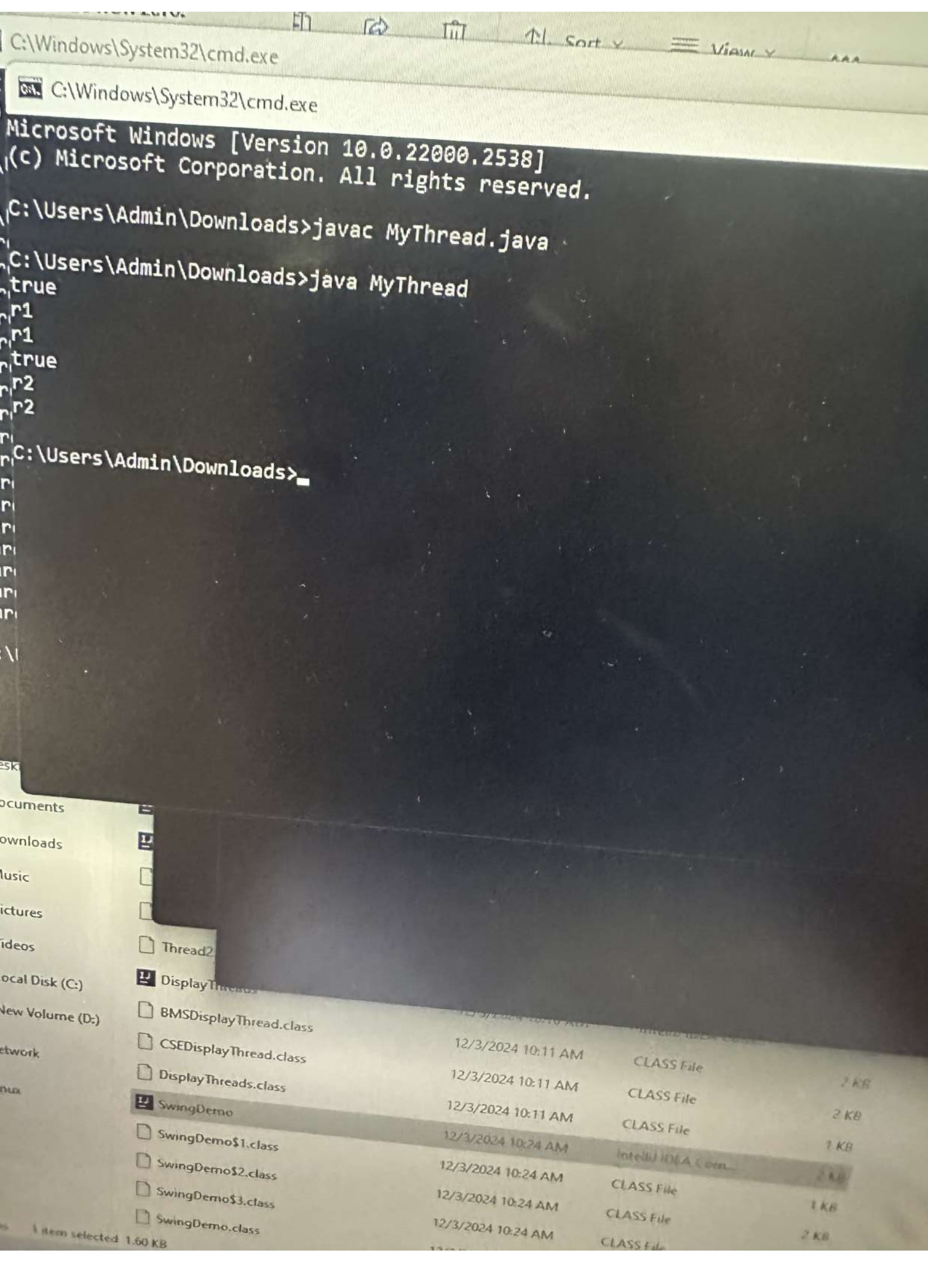
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
New Volume (D:)
Network
Linux

Thread2.
DisplayThreads
BMSDisplayThread.class
CSEDisplayThread.class
DisplayThreads.class

12/3/2024 10:11 AM
12/3/2024 10:11 AM

CLASS File

C:\Windows\System32\cmd.exe

C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.22000.2538]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin\Downloads>javac MyThread.java

C:\Users\Admin\Downloads>java MyThread
true
r1
r1
true
r2
r2

C:\Users\Admin\Downloads>_

Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
New Volume (D:)
Network

Thread2
DisplayThreads
BMSDisplayThread.class
CSEDisplayThread.class   12/3/2024 10:11 AM   CLASS File
DisplayThreads.class   12/3/2024 10:11 AM   CLASS File   2 KB
SwingDemo   12/3/2024 10:11 AM   CLASS File   2 KB
SwingDemo$1.class   12/3/2024 10:24 AM   IntelliJ IDEA Com...   1 KB
SwingDemo$2.class   12/3/2024 10:24 AM   CLASS File
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```
Divider App                    —    □    ✕

⌨ C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.22000.2538]
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C:\Users\Admin\Downloads>javac Main.java

C:\Users\Admin\Downloads>java Main
BMS College of Engineering
CSE

C:\Users\Admin\Downloads>
```

- Desk
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)
- New Volume (D:)
- Network
- Linux

Thread2
DisplayThr
BMSDisplayThread.class
CSEDisplayThread.class
DisplayThread

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```
\Downloads>java Main
  Engineering
```

```
Microsoft Windows [Version 10.0.22000.2538]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin\Downloads>javac MyThreadd.java

C:\Users\Admin\Downloads>java MyThreadd
r1
r1
r2
r2


C:\Users\Admin\Downloads>
```

Thread2
DisplayThreads
BMSDisplayThread.class
CSEDisplayThread.class   12/3/2024 10:11 AM   CLASS File
DisplayThreads.class   12/3/2024 10:11 AM   CLASS File
SwingDemo   12/3/2024 10:11 AM   CLASS File
SwingDemo$1.class   12/3/2024 10:24 AM   IntelliJ IDEA Com...
SwingDemo$2.class   12/3/2024 10:24 AM   CLASS File

C:\Windows\System32\cmd.exe - java DisplayThreads

```
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> 📹 Videos
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📄 DisplayThreads
☐ BMSDisplayThread.class   12/3/2024 10:11 AM   CLASS File
☐ CSEDisplayThread.class   12/3/2024 10:11 AM
☐ DisplayThreads.class   12/3/2024 10:11 AM   CLASS File

Lab - 8

Write a program which creates two threads, one thread displaying "BMS College of Engineering" once every ten seconds and another displaying "CSE" once every two seconds.

Program

```
class BMSThread extends Thread
{
    public void run()
    {
        try
        {
            while (true)
            {
                System.out.println(" BMS College of Engineering");
                Thread.sleep (10,000);
            }
        }
        catch (InterruptedException e)
        {
            System.out.println(" Thread Interrupted: " +
                                e.getMessage());
        }
    }
}
```

```java
class CSEThread extends Thread
{
    public void run()
    {
        try
        {
            while (true)
            {
                System.out.println(" CSE ");
                Thread.sleep(2000);
            }
        }
        catch (InterruptedException e)
        {
            System.out.println(" Thread Interrupted :" +
                        e.getMessage());
        }
    }
}
public class DisplayThreads
{
    public static void main (String [] args)
    {
        BMSThread bmsThread = new BMSThread ();
        CSEThread cseThread = new CSEThread();
        bmsThread.start();
```

Lab Program - 9

Write a program that creates a user interface to perform integer division. The user enters two numbers in the text fields, Num1, Num2. The division of Num1 & Num2 is displayed in the Result field when the divide button is clicked. If Num1 os Num2 were not an integer, the program would throw a Number Format Exception. If Num2 were zero, the program would throw an Arithmetic exception Display the exception in a message dialogue box.

Program

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
class SwingDemo
{
    SwingDemo()
    {
        JFrame jfrm = new JFrame("Divider App");
        jfrm.setSize(275, 150);
        jfrm.setLayout(new FlowLayout());
        jfrm.setDefaultCloseOperaton(JFrame.EXIT_ON_CLOSE)
        JLabel jlab = new JLabel("Enter the divider and
                                 dividend :");
```

```java
JTextField ajtf = new JTextField (8);
JTextField bjtf = new JTextField (8);
JButton Button = new JButton ("calculato");
JLabel err = new JLabel ();
JLabel alab = new JLabel ();
JLabel blab = new JLabel ();
JLabel anslab = new JLabel ();
jfrm . add (err);
jfrm . add (jlab);
jfrm . add (ajtf);
jfrm . add (bjtf);
jfrm . add (button);
jfrm . add (alab);
jfrm . add (blab);
jfrm . add (anslab);
ActionListener l = new ActionListener ()
{

    public void actionPerformed ( ActionEvent evt)
    {

    System.out.println (" Action event from a text field");
    }

3;

ajtf . addActionListener (l);
bjtf . addActionListener (l);
button . addActionListener (new ActionListener ()
{
```

```java
public void actionPerformed (Action Event evt)
{
    try
    {
        int a = Integer.parseInt (ajtf.getText());
        int b = Integer.parseInt (bjtf.getText());
        int ans = a/b;
        alab.setText ("nA = "+a);
        blab.setText ("nB = "+b);
        anslab.setText ("nAns = "+ans);
    }
    catch (Number Format Exception e)
    {
        alab.setText ("");
        blab.setText ("");
        anslab.setText ("");
        err.setText ("B should be non zero);
    }
    }
    });

    jfrm.setVisible (true);
}
public static void main (String args []);
{
    Swing Utilities. invoke Later (new Runnable ()
    {
```

```
public void run ()
{
    new SwingDemo ();
}
3);
}
}
```

output

① Enter the divider and dividend

| 10 | | 5 |

Calculate A=10, B=5 Ans = 2

② Enter the divides and divident

| 10 | | 0 |

B should be non zero

02.12