



Student ID: 0789055

Student Name: Dikshith Reddy Macherla

Program Testing: Screenshot based functionality testing with a short description of each test.  
Remember to test every edge case (e.g., CSV does not exist):

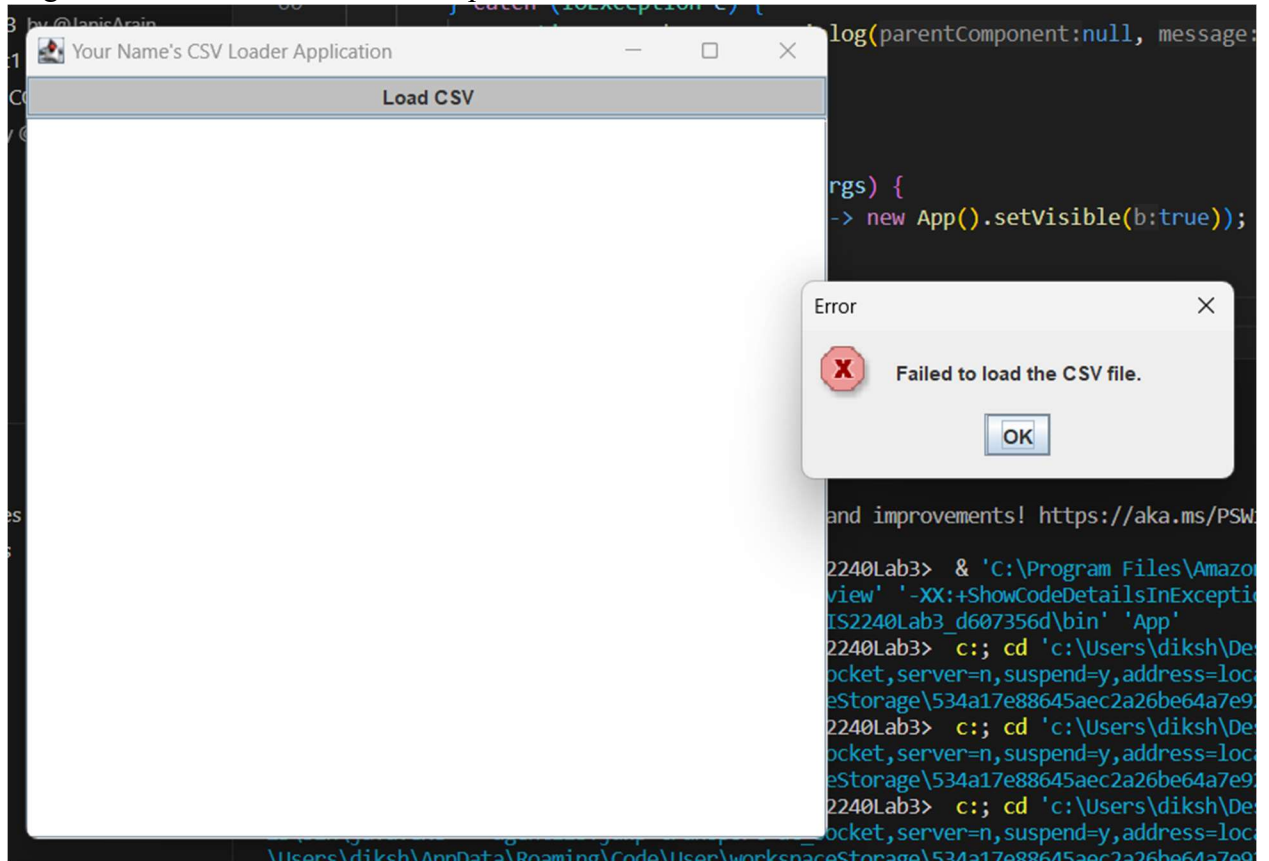
1. Normal Operation: The CSV file exists at the specified path and contains well-formed data.

A screenshot of an IDE (IntelliJ IDEA) with a dark theme. A window titled "CSV Loader Application" is open, displaying a "Load CSV" dialog box. The dialog box contains a text area with the following CSV data:

```
accountNumber,accountHolderName,accountType,balance
12345,John Doe,Savings,1500.50
23456,Jane Doe,Checking,2500.75
34567,Michael Smith,Savings,3000.00
45678,Lisa Simpson,Checking,4000.25
56789,Bart Simpson,Savings,500.00
55696,Alaadin Addas,Savings,0
```

The background IDE shows a project structure with "App.java" and a terminal window at the bottom with the command: `PS C:\Users\diksh\Desktop\COIS 224 13\bin\java.exe' '-agentlib:jdwp=t \Users\diksh\AppData\Roaming\Code\ PS C:\Users\diksh\Desktop\COIS 224`

2. Edge Case - Nonexistent File: The specified CSV file does not exist.



Copy and paste your code below:

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;

public class App extends JFrame {
    private JTextArea textArea;

    public App() {
        // JFrame settings
        setTitle("CSV Loader Application"); // Remember to replace "Your Name"
        with your actual name.
        setSize(500, 500);
    }
}
```

```

setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setLayout(new BorderLayout());

// Create a new button named loadButton with the text "Load CSV".
JButton loadButton = new JButton("Load CSV");

// Initialize the textArea that was declared at the class level.
textArea = new JTextArea();
textArea.setEditable(false); // Make the textArea uneditable.

// Create a JScrollPane that contains the textArea, enabling scrolling.
JScrollPane scrollPane = new JScrollPane(textArea);

// Add an ActionListener to loadButton to load the CSV when clicked.
loadButton.addActionListener(e ->
loadCsv("C:\\Users\\diksh\\Desktop\\COIS 2240H\\Lab_3\\bank_accounts.csv"));

// Example styling for loadButton and textArea.
loadButton.setBackground(Color.LIGHT_GRAY);
textArea.setFont(new Font("Monospaced", Font.PLAIN, 12));
textArea.setForeground(Color.DARK_GRAY);
textArea.setBackground(Color.WHITE);

// Add the loadButton and scrollPane to the JFrame.
add(loadButton, BorderLayout.NORTH);
add(scrollPane, BorderLayout.CENTER);
}

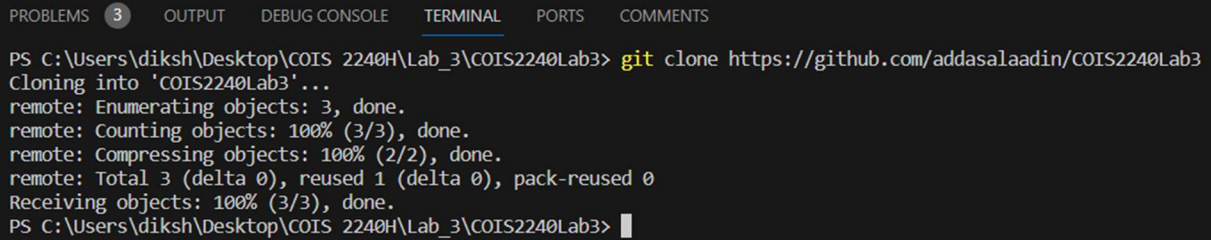
private void loadCsv(String filePath) {
    try (BufferedReader br = new BufferedReader(new FileReader(filePath))) {
        StringBuilder content = new StringBuilder();
        String line;
        while ((line = br.readLine()) != null) {
            content.append(line).append("\n");
        }
        textArea.setText(content.toString());
    } catch (IOException e) {
        JOptionPane.showMessageDialog(null, "Failed to load the CSV file.",
>Error", JOptionPane.ERROR_MESSAGE);
    }
}

public static void main(String[] args) {
    SwingUtilities.invokeLater(() -> new App().setVisible(true));
}

```

```
}
```

Prove using a screenshot that you cloned the github repository:



A screenshot of a Visual Studio Code terminal window. The terminal shows the execution of the `git clone` command to clone a repository from GitHub. The output indicates that the cloning process was successful, with objects being enumerated, counted, and compressed. The terminal text is as follows:

```
PS C:\Users\diksh\Desktop\COIS 2240H\Lab_3\COIS2240Lab3> git clone https://github.com/addasalaadin/COIS2240Lab3
Cloning into 'COIS2240Lab3'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 1 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
PS C:\Users\diksh\Desktop\COIS 2240H\Lab_3\COIS2240Lab3>
```