Object Oriented Programming using JAVA

Ist SEMESTER

ACADEMIC YEAR 2023 (Aug-Dec)



SCHOOL OF COMPUTING SCIENCE & ENGINEERING

VIT BHOPAL UNIVERSITY

**Activity 1**

**Lab Assignment:** Analyzing Java Swing Application

**Objective:**

The objective of this lab assignment is to analyze a given Java Swing application, provided in the form of a RAR file, containing the compiled class file named "SwingApplication.class." Your task is to run the application, observe its behavior, and document various aspects of the application's structure and functionality.

**Instructions:**

1. You will be provided with a RAR file containing the compiled Java Swing application named "SwingApplication.class."
2. Extract the contents of the RAR file and run the application.
3. Document the following aspects of the application:
4. Identify and list all the Swing classes used in the application.

Ans:

Swing Classes:

* JFrame Class
* JButton class
* JLabel Class
* JTextField class
* JCheckBox class
* JOptionPane class
* JComboBox class

1. Identify and list the graphical components (Swing controls) present in the application.

Ans:

Graphical Components in Application:

* Button
* Text Field
* Text
* A checkbox with event handling
* A Event handling message
* A combo box with multiple values

1. Analyze the event handling mechanisms implemented in the application.

Ans:

When we click on the button “click here” the an event is performing in back end with the help of actionPerformed() method. When we click on the button it is showing a Option panel.We are handling button click event.

1. Write a report explaining your findings. Include details about the identified Swing classes, the purpose of each graphical component, and how event handling is managed in the application.

Ans:

The purpose of this code is that showing the button click events. In event handling when we clicking on checkbox then it is enbling the text field column.

1. If there are any user interactions in the application, describe how these interactions are handled through event listeners.

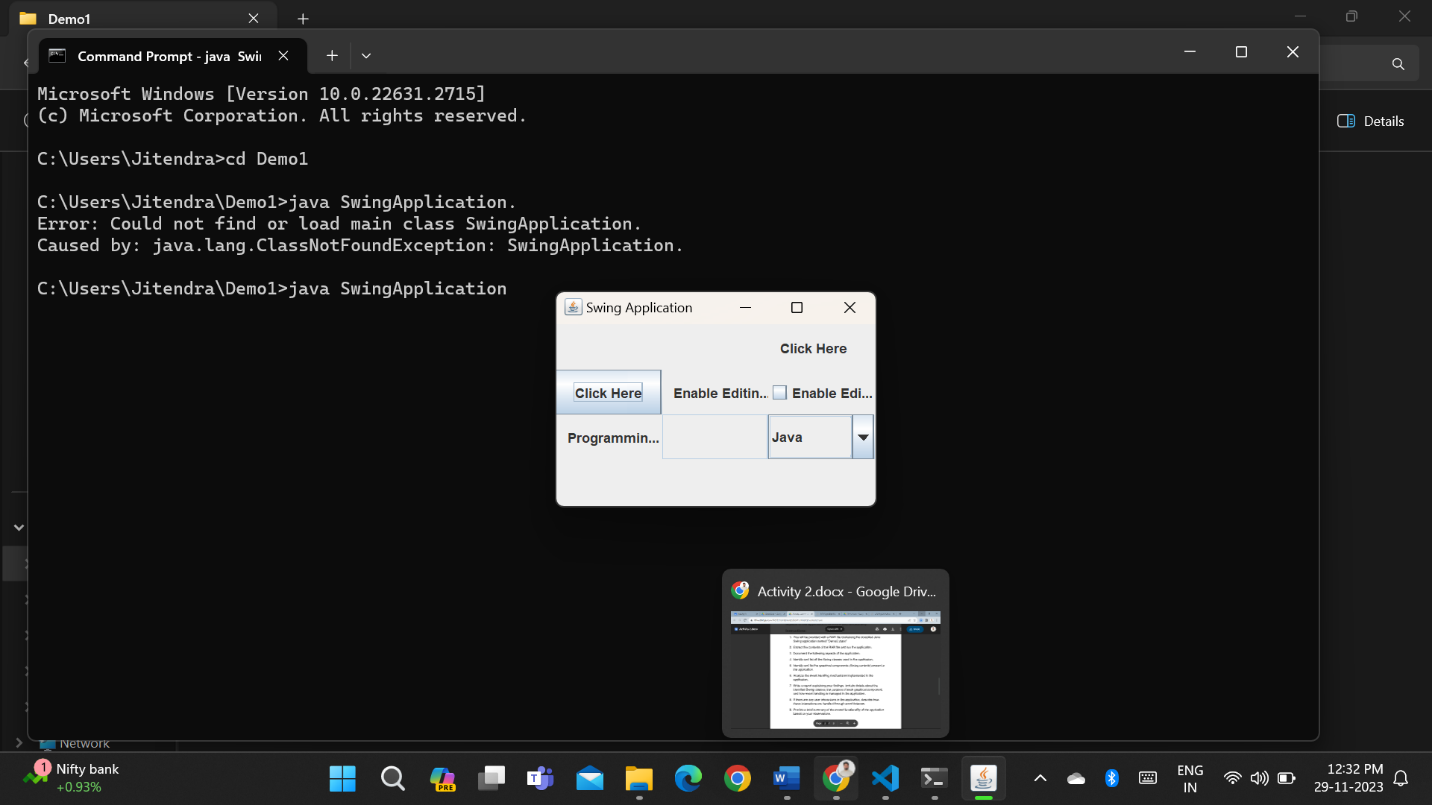
Ans:There is user interaction of JFrame .It’s showing a small JFrame.

Which containing Swing components.

1. Provide a brief summary of the overall functionality of the application based on your observations.

Ans:

This is the basic demonstration of Swing components.



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