**Task2- WordCounter**

**Source Code:**

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

public class WordCounter {

public static void main(String[] args) {

// Create JFrame

JFrame frame = new JFrame("Word Counter");

frame.setSize(400, 300);

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setLayout(new BorderLayout());

// Create JTextArea for input

JTextArea textArea = new JTextArea();

JScrollPane scrollPane = new JScrollPane(textArea);

frame.add(scrollPane, BorderLayout.CENTER);

// Create a button

JButton countButton = new JButton("Count Words");

frame.add(countButton, BorderLayout.SOUTH);

// Label to display word count

JLabel resultLabel = new JLabel("Word Count: 0", SwingConstants.CENTER);

frame.add(resultLabel, BorderLayout.NORTH);

// Add action listener to button

countButton.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

String text = textArea.getText().trim();

if (text.isEmpty()) {

resultLabel.setText("Word Count: 0");

} else {

String[] words = text.split("\\s+"); // Split by spaces

resultLabel.setText("Word Count: " + words.length);

}

}

});

// Set frame visible

frame.setVisible(true);

}

}

Output:



