**Pemrograman Jaringan**

****

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**PROGRAM STUDI TEKNIK INFORMATIKA**

**JURUSAN TEKNOLOGI INFORMASI**

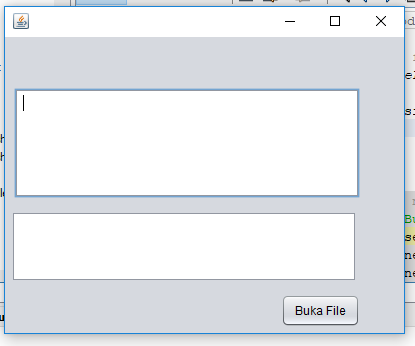
**POLITEKNIK NEGERI MALANG**

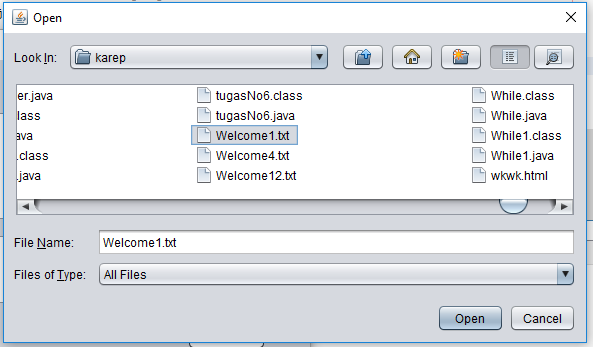
1. PushBackInputStream

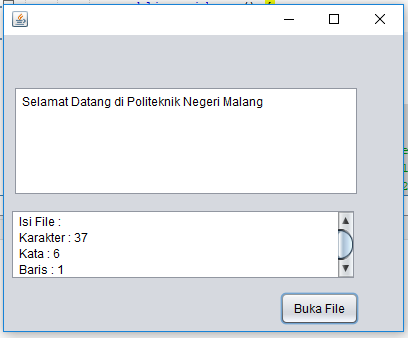
* Source Code

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| Kuis1.java |
| /\*  \* To change this license header, choose License Headers in Project Properties.  \* To change this template file, choose Tools | Templates  \* and open the template in the editor.  \*/  package Kuis1;  import Kuis11.Tugas05Controller;  import java.io.FileInputStream;  import java.io.FileNotFoundException;  import java.io.FileReader;  import java.io.IOException;  import java.io.LineNumberReader;  import java.io.PushbackInputStream;  import java.util.ArrayList;  import java.util.List;  import java.util.logging.Level;  import java.util.logging.Logger;  import javax.swing.JFileChooser;  import javax.swing.JOptionPane;  import javax.swing.text.BadLocationException;  import javax.swing.text.StyledDocument;  /\*\*  \*  \* @author User  \*/  public class Kuis1 extends javax.swing.JFrame {  /\*\*  \* Creates new form Kuis1  \*/  private Kuis1 view;  public Kuis1() {  initComponents();  }  /\*\*  \* This method is called from within the constructor to initialize the form.  \* WARNING: Do NOT modify this code. The content of this method is always  \* regenerated by the Form Editor.  \*/  @SuppressWarnings("unchecked")  // <editor-fold defaultstate="collapsed" desc="Generated Code">  private void initComponents() {  jFileChooser1 = new javax.swing.JFileChooser();  jScrollPane1 = new javax.swing.JScrollPane();  jTextPane1 = new javax.swing.JTextPane();  jButton1 = new javax.swing.JButton();  jScrollPane2 = new javax.swing.JScrollPane();  jTextPane2 = new javax.swing.JTextPane();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  jScrollPane1.setViewportView(jTextPane1);  jButton1.setText("Buka File");  jButton1.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  jButton1ActionPerformed(evt);  }  });  jScrollPane2.setViewportView(jTextPane2);  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jButton1)  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGap(9, 9, 9)  .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 346, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(layout.createSequentialGroup()  .addContainerGap()  .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, 346, javax.swing.GroupLayout.PREFERRED\_SIZE))))  .addContainerGap(44, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGap(51, 51, 51)  .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 110, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(13, 13, 13)  .addComponent(jScrollPane2, javax.swing.GroupLayout.DEFAULT\_SIZE, 71, Short.MAX\_VALUE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  pack();  }// </editor-fold>  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  // TODO add your handling code here:  JFileChooser loadFile = jFileChooser1;  StyledDocument doc = jTextPane1.getStyledDocument();  if (JFileChooser.APPROVE\_OPTION == loadFile.showOpenDialog(view)) {  PushbackInputStream pis = null;  try {  pis = new PushbackInputStream(new FileInputStream(loadFile.getSelectedFile()));  doc.insertString(0, "", null);  byte byteData;  int karakterTeks = 0;  int kataTeks = 1;  int barisTeks = 1;  while ((byteData = (byte) pis.read()) != -1) {  doc.insertString(doc.getLength(), ""+(char)byteData, null);  System.out.print((char) byteData);  pis.unread(byteData);  // Reread the byte we unread  byteData = (byte) pis.read();  // Menghitung Jumlah Kata dan Karakter  char kata = (char) byteData;  if (kata == ' ' || kata == '.' || kata == '?' || kata == '!' || kata == '\n') {  kataTeks++;  } else {  karakterTeks++;  }  // Menghitung Jumlah Baris  char baris = (char) byteData;  if (baris == '\n') {  barisTeks++;  }  }  jTextPane2.setText("Isi File : "+"\n"+"Karakter : "+karakterTeks+"\n"+  "Kata : "+kataTeks+"\n"+"Baris : "+barisTeks);  // System.out.println("\n");  // System.out.println("Banyak karakter : " + karakterTeks + " Karakter");  // System.out.println("Banyak kata : " + kataTeks + " Kata");  // System.out.println("Banyak baris : " + barisTeks + " Baris");  } catch (Exception e2) {  e2.printStackTrace();  }  }  }  /\*\*  \* @param args the command line arguments  \*/  public static void main(String args[]) {  /\* Set the Nimbus look and feel \*/  //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  \*/  try {  for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  if ("Nimbus".equals(info.getName())) {  javax.swing.UIManager.setLookAndFeel(info.getClassName());  break;  }  }  } catch (ClassNotFoundException ex) {  java.util.logging.Logger.getLogger(Kuis1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Kuis1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Kuis1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Kuis1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(new Runnable() {  public void run() {  new Kuis1().setVisible(true);  }  });  }  // Variables declaration - do not modify  private javax.swing.JButton jButton1;  private javax.swing.JFileChooser jFileChooser1;  private javax.swing.JScrollPane jScrollPane1;  private javax.swing.JScrollPane jScrollPane2;  private javax.swing.JTextPane jTextPane1;  private javax.swing.JTextPane jTextPane2;  // End of variables declaration  } |

* Output







1. PushBackReader Stream

* Source Code

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| Kuis1Reader.java |
| /\*  \* To change this license header, choose License Headers in Project Properties.  \* To change this template file, choose Tools | Templates  \* and open the template in the editor.  \*/  package Kuis1;  import Kuis11.Tugas05Controller;  import java.io.FileInputStream;  import java.io.FileNotFoundException;  import java.io.FileReader;  import java.io.IOException;  import java.io.LineNumberReader;  import java.io.PushbackReader;  import java.util.ArrayList;  import java.util.List;  import java.util.logging.Level;  import java.util.logging.Logger;  import javax.swing.JFileChooser;  import javax.swing.JOptionPane;  import javax.swing.text.BadLocationException;  import javax.swing.text.StyledDocument;  /\*\*  \*  \* @author User  \*/  public class Kuis1 extends javax.swing.JFrame {  /\*\*  \* Creates new form Kuis1  \*/  private Kuis1 view;  public Kuis1() {  initComponents();  }  /\*\*  \* This method is called from within the constructor to initialize the form.  \* WARNING: Do NOT modify this code. The content of this method is always  \* regenerated by the Form Editor.  \*/  @SuppressWarnings("unchecked")  // <editor-fold defaultstate="collapsed" desc="Generated Code">  private void initComponents() {  jFileChooser1 = new javax.swing.JFileChooser();  jScrollPane1 = new javax.swing.JScrollPane();  jTextPane1 = new javax.swing.JTextPane();  jButton1 = new javax.swing.JButton();  jScrollPane2 = new javax.swing.JScrollPane();  jTextPane2 = new javax.swing.JTextPane();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  jScrollPane1.setViewportView(jTextPane1);  jButton1.setText("Buka File");  jButton1.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  jButton1ActionPerformed(evt);  }  });  jScrollPane2.setViewportView(jTextPane2);  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jButton1)  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGap(9, 9, 9)  .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 346, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(layout.createSequentialGroup()  .addContainerGap()  .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, 346, javax.swing.GroupLayout.PREFERRED\_SIZE))))  .addContainerGap(44, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGap(51, 51, 51)  .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 110, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(13, 13, 13)  .addComponent(jScrollPane2, javax.swing.GroupLayout.DEFAULT\_SIZE, 71, Short.MAX\_VALUE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  pack();  }// </editor-fold>  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  // TODO add your handling code here:  JFileChooser loadFile = jFileChooser1;  StyledDocument doc = jTextPane1.getStyledDocument();  if (JFileChooser.APPROVE\_OPTION == loadFile.showOpenDialog(view)) {  PushbackReader pis = null;  try {  pis = new PushbackReader(new FileReader(loadFile.getSelectedFile()));  doc.insertString(0, "", null);  int data = pis.read();  while (data != -1) {  System.out.print((char) data);  data = pis.read();  int karakterTeks=0;  int kataTeks=0;  int barisTeks=1;  jTextPane2.setText("Isi File : " + "\n" + "Karakter : " + karakterTeks + "\n"  + "Kata : " + kataTeks + "\n" + "Baris : " + barisTeks);  // System.out.println("\n");  // System.out.println("Banyak karakter : " + karakterTeks + " Karakter");  // System.out.println("Banyak kata : " + kataTeks + " Kata");  // System.out.println("Banyak baris : " + barisTeks + " Baris");  }    } catch (FileNotFoundException ex) {  Logger.getLogger(Kuis1.class.getName()).log(Level.SEVERE, null, ex);  } catch (BadLocationException ex) {  Logger.getLogger(Kuis1.class.getName()).log(Level.SEVERE, null, ex);  } catch (IOException ex) {  Logger.getLogger(Kuis1.class.getName()).log(Level.SEVERE, null, ex);  }  }  /\*\*  \* @param args the command line arguments  \*/  public static void main(String args[]) {  /\* Set the Nimbus look and feel \*/  //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  \*/  try {  for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  if ("Nimbus".equals(info.getName())) {  javax.swing.UIManager.setLookAndFeel(info.getClassName());  break;  }  }  } catch (ClassNotFoundException ex) {  java.util.logging.Logger.getLogger(Kuis1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Kuis1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Kuis1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Kuis1.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(new Runnable() {  public void run() {  new Kuis1().setVisible(true);  }  });  }  // Variables declaration - do not modify  private javax.swing.JButton jButton1;  private javax.swing.JFileChooser jFileChooser1;  private javax.swing.JScrollPane jScrollPane1;  private javax.swing.JScrollPane jScrollPane2;  private javax.swing.JTextPane jTextPane1;  private javax.swing.JTextPane jTextPane2;  // End of variables declaration  } |

* Output

