package Codes;

import java.awt.BorderLayout;

//import java.awt.Scrollbar;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.io.\*;

import javax.swing.\*;

import javax.swing.filechooser.FileNameExtensionFilter;

import Codes.GenomicLength;

public class Upload

{

//DECLARATION OF VARIABLES

public static String name=null;

//CONSTRUCTOR

public Upload(JTabbedPane frame)

{

//SETTING PANEL FOR TAB

frame.setTabPlacement(1);

final JPanel panel = new JPanel();

frame.add(panel, "Upload File");

JButton open = new JButton("Open A File");

panel.add(open);

open.setToolTipText("Only .txt files supported");

final JTabbedPane f = frame;

open.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent e)

{

//CODE FOR CHOOSING A .TXT FILE FROM FILES IN COMPUTER

JFileChooser fc = new JFileChooser();

f.add(fc);

int value = fc.showOpenDialog(f);

File file = null;

if(value == JFileChooser.APPROVE\_OPTION)

{

file = fc.getSelectedFile();

//System.out.println(file.getPath());

FileNameExtensionFilter filter = new FileNameExtensionFilter("TEXT FILES", "\*.txt", "txt", "text");

fc.setFileFilter(filter);

name= file.getAbsolutePath();

char[] chararray=name.toCharArray();

String hr="";

for(int i=0;i<chararray.length;i++)

{

if(chararray[i]=='\\')

{

chararray[i]='/';

}

hr=hr+chararray[i];

}

//CODE FOR CALCULATING % OF ATGC AND GENELENGTH

GenomicLength genelength = new GenomicLength(hr);

double[] array = genelength.getGL();

//CODE FOR DISPLAY OF THE FILE

JTextArea text = new JTextArea();

text.setColumns(20);

text.setRows(10);

text.setLayout(null);

JScrollPane scroll = new JScrollPane (text); //INSERTING A SCROLL

scroll.setVerticalScrollBarPolicy(ScrollPaneConstants.VERTICAL\_SCROLLBAR\_ALWAYS);

scroll.setVisible(true);

scroll.setBounds(20,20,50,50);

panel.add(scroll);

text.setLineWrap(true);

text.setEditable(false);

text.setVisible(true);

//LABELS FOR DISPLAY OF ATGC CONTEXT

JLabel l1 = new JLabel("%A ");

JLabel l2 = new JLabel("%T ");

JLabel l3 = new JLabel("%C ");

JLabel l4 = new JLabel("%G ");

//TEXTFIELDS FOR DISPLAYING ATGC CONTENT

JTextField tx1 = new JTextField();

tx1.setText(Double.toString(array[0]));

JTextField tx2 = new JTextField();

tx2.setText(Double.toString(array[1]));

JTextField tx3 = new JTextField();

tx3.setText(Double.toString(array[2]));

JTextField tx4 = new JTextField();

tx4.setText(Double.toString(array[3]));

panel.add(scroll, BorderLayout.CENTER);

panel.add(l1, BorderLayout.PAGE\_END);

panel.add(tx1, BorderLayout.PAGE\_END);

panel.add(l2, BorderLayout.PAGE\_END);

panel.add(tx2, BorderLayout.PAGE\_END);

panel.add(l3, BorderLayout.PAGE\_END);

panel.add(tx3, BorderLayout.PAGE\_END);

panel.add(l4, BorderLayout.PAGE\_END);

panel.add(tx4, BorderLayout.PAGE\_END);

BufferedReader in = null;

try

{

in = new BufferedReader(new FileReader(file));

}

catch (FileNotFoundException e1)

{

// TODO Auto-generated catch block

e1.printStackTrace();

}

String line = null;

try

{

line = in.readLine();

}

catch (IOException e1)

{

// TODO Auto-generated catch block

e1.printStackTrace();

}

while(line != null)

{

text.append(line + "\n");

try

{

line = in.readLine();

}

catch (IOException e1)

{

// TODO Auto-generated catch block

e1.printStackTrace();

}

}

}

}

});

while (name==null)

{

String s = getName();

if (s!=null)

{

open.setEnabled(false);

}

}

}

public static void main(String[] args)

{

//Function();

}

public String getName()

{

//System.out.print("");

return name;

}

}