Code for Project # 6

**Programming Project 11.1**

**public** **class** StringTooLongException **extends** Exception{

**public** StringTooLongException(){

**super** ("String too long error");

}

}

**import** java.io.BufferedReader;

**import** java.io.IOException;

**import** java.io.InputStreamReader;

**public** **class** StringtooLongDriver {

**public** **static** **void** main(String args[]) **throws** IOException

{

**int** num\_of\_strings= 1;

String entryfromuser;

BufferedReader test = **new** BufferedReader( **new** InputStreamReader(System.*in*));

System.*out*.println("Please enter a String up to 20 characters:");

**try**{

**while**(num\_of\_strings >0){

entryfromuser = test.readLine();

**if**(entryfromuser.equals("DONE")){

**break**;

}

**else** **if** (entryfromuser.length()>20){

**throw** **new** StringTooLongException();

}

**else**{

num\_of\_strings++;

}

}

}

**catch**(StringTooLongException repeat\_entry){

System.*out*.println("This String is too long :” +repeat\_entry);

}

}

}

**Programming Project 11.2**

**public** **class** StringTooLongException **extends** Exception{

**public** StringTooLongException(){

}

}

**import** java.io.BufferedReader;

**import** java.io.IOException;

**import** java.io.InputStreamReader;

**public** **class** StringtooLongDriver {

**public** **static** **void** main(String args[]) **throws** IOException

{

**int** num\_of\_strings= 1;

String entryfromuser;

BufferedReader test = **new** BufferedReader( **new** InputStreamReader(System.*in*));

System.*out*.println("Please enter a String up to 20 characters:");

**try**{

**while**(num\_of\_strings >0){

entryfromuser = test.readLine();

**if**(entryfromuser.equals("DONE")){

**break**;

}

**else** **if** (entryfromuser.length()>20){

**throw** **new** StringTooLongException();

}

**else**{

num\_of\_strings++;

}

}

}

**catch**(StringTooLongException repeat\_entry){

System.*out*.println("This String is too long :" + repeat\_entry);

*main*(args);

}

}

}

**Programming Project 11.3**

**import** java.util.Scanner;

**import** java.awt.BorderLayout;

**import** java.awt.event.ActionEvent;

**import** java.awt.event.ActionListener;

**import** java.io.\*;

**import** javax.swing.\*;

**public** **class** DisplayFile

{

**private** **static** JTextArea *ta*;

**private** File file;

@SuppressWarnings("resource")

**public** **void** run() **throws** IOException

{

JFrame frame = **new** JFrame ("Display File");

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

*ta* = **new** JTextArea (20, 30);

JFileChooser chooser = **new** JFileChooser();

**int** status = chooser.showOpenDialog (**null**);

**if** (status != JFileChooser.*APPROVE\_OPTION*)

*ta*.setText ("No File Chosen");

**else**

{

File file = chooser.getSelectedFile();

Scanner scan = **new** Scanner (file);

String info = "";

**while** (scan.hasNext())

info += scan.nextLine() + "\n";

*ta*.setText (info);

}

//Add button

JButton save = **new** JButton("Save");

save.addActionListener(**new** SaverListener());

frame.getContentPane().add(save, BorderLayout.*NORTH*);

frame.getContentPane().add (*ta*, BorderLayout.*CENTER*);

frame.pack();

frame.setVisible(**true**);

}

**void** save(){

**if** (file == **null**)

*ta*.setText("Error");

**else**{

**try**{

FileWriter fill = **new** FileWriter(file);

BufferedWriter outfile = **new** BufferedWriter(fill);

outfile.write(*ta*.getText());

outfile.close();

*ta*.setText("File Save");}

**catch** (IOException e){

*ta*.setText("Error");

}

}

}

**public** **static** **void** main(String[] args) **throws** IOException{

**new** DisplayFile().run();

}

}

**class** SaverListener **implements** ActionListener{

**public** **void** actionPerformed(ActionEvent e){

**new** DisplayFile().save();

}

}