

# Assignment # 6

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1. Programming project 11.1 of Chapter 11
2. Programming project 11.2 of Chapter 11
3. Programming project 11.5 of Chapter 11

## Programming Project 11.1

### Description:

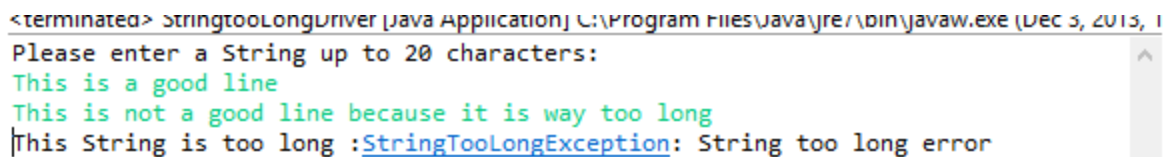
Design and implement a program that creates an exception class called `StringTooLongException`, designed to be thrown when a string is discovered that has too many characters in it. In the main driver of the program, read strings from the user until the user enters "DONE." If a string is entered that has too many characters (say 20), throw the exception. Allow the thrown exception to terminate the program.

### How to solve:

First I need to create the `StringTooLongException` Class extends exception. Then I will create the Driver class that will take in strings from the user until "DONE" is submitted. Each string will be checked to see if it has more than 20 characters and if it does it will throw the exception.

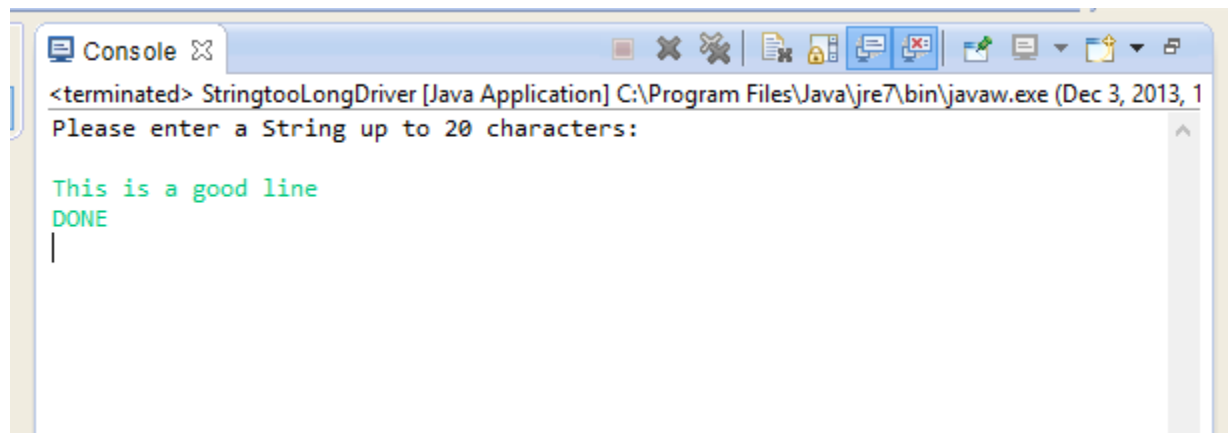
### Screen Shots:

(A good line and a line past 20 characters)



```
<terminated> StringTooLongDriver [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Dec 3, 2013, 1
Please enter a String up to 20 characters:
This is a good line
This is not a good line because it is way too long
This String is too long :StringTooLongException: String too long error
```

(A good line and "DONE" break)



```
Console
<terminated> StringTooLongDriver [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Dec 3, 2013, 1
Please enter a String up to 20 characters:
This is a good line
DONE
```

## Programming Project 11.2

### Description:

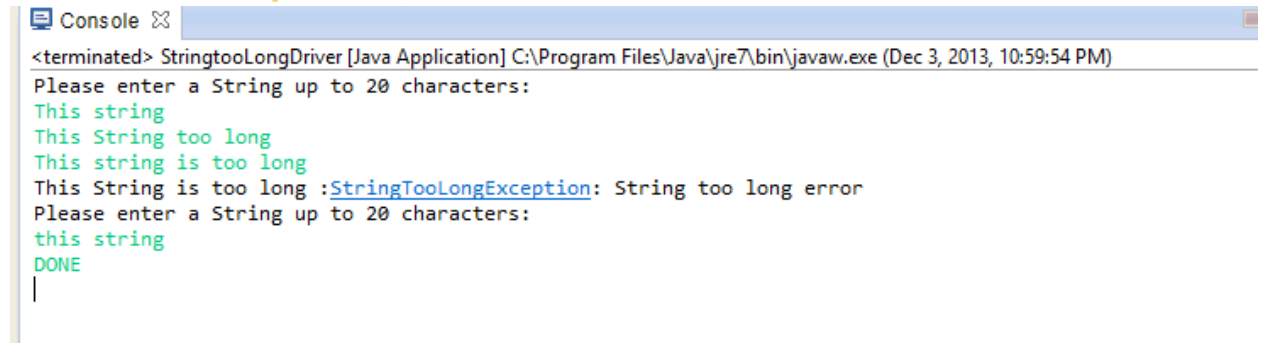
Modify the solution to PP 11.1 such that it catches and handles the exception if it is thrown. Handle the exception by printing an appropriate message, and then continue processing more strings.

### How to Solve:

For the `StringTooLongException` program I will remove the line of code `super("String too long error");` I will then add a line to the `catch` that will call the `main(args)` after the exception.

### Screen Shots:

(A good String, A string calling the Exception then running a good string, then terminated by DONE)



```
<terminated> StringtoolongDriver [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Dec 3, 2013, 10:59:54 PM)
Please enter a String up to 20 characters:
This string
This String too long
This string is too long
This String is too long :StringTooLongException: String too long error
Please enter a String up to 20 characters:
this string
DONE
|
```

## Programming Project 11.5

### Description:

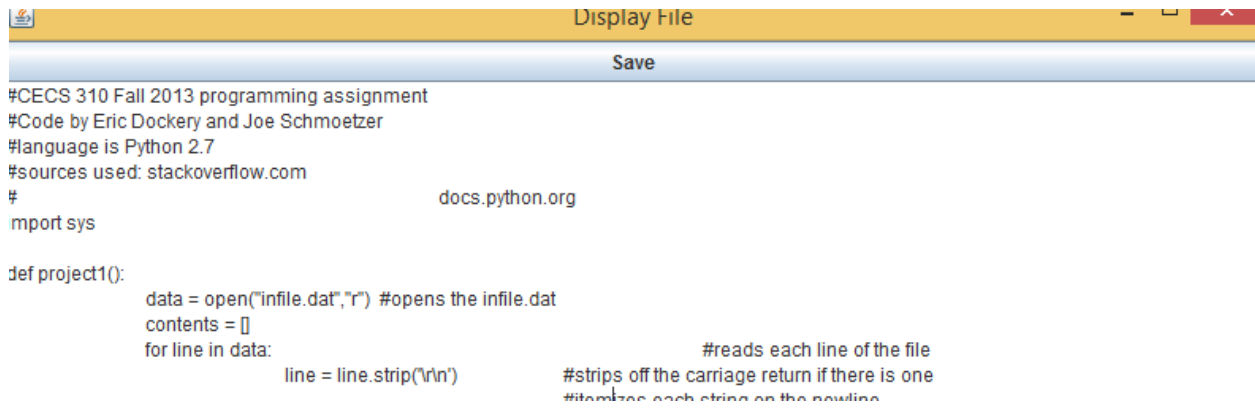
Modify the `DisplayFile` program from Chapter 10 to add a button labeled `Save` above the text area. When the button is pushed, write the contents back out to the file.

### How to Solve:

Copy the `DisplayFile` program from Chapter 10. Add the `Save` button above the text area. The only issue with this is getting the action listener for the `Save` button to work for some reason I was receiving an error when adding the new `ActionListener`. Then I had problems correctly making the output that information to the file.

### Screen Shots:

(program running)

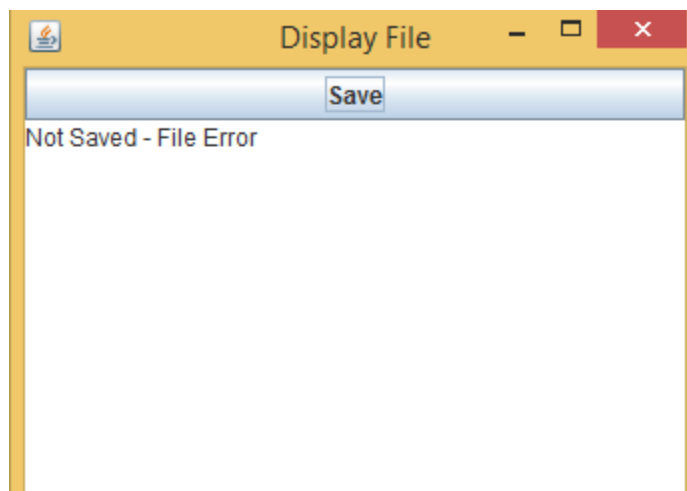


The screenshot shows a window titled "Display File" with a yellow title bar and standard Windows window controls. Below the title bar is a light blue bar containing a "Save" button. The main area of the window displays the following Python code:

```
#CECS 310 Fall 2013 programming assignment
#Code by Eric Dockery and Joe Schmoetzer
#language is Python 2.7
#sources used: stackoverflow.com
#
#                                     docs.python.org
import sys

def project1():
    data = open("infile.dat","r") #opens the infile.dat
    contents = []
    for line in data:
        line = line.strip('\r\n') #strips off the carriage return if there is one
                                #strips each string on the newline
```

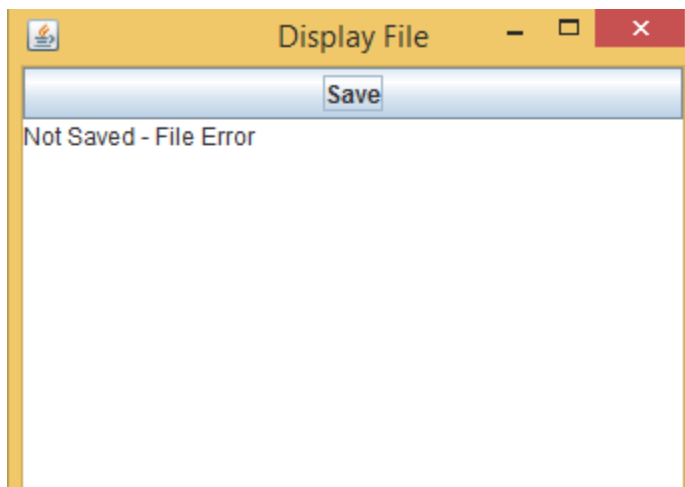
(First Save attempt)



Driverfor115 [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (Dec 3, 2013, 11:52:53 PM)

```
at javax.swing.DefaultButtonModel.setPressed(Unknown Source)
at javax.swing.plaf.basic.BasicButtonListener.mouseReleased(Unknown Source)
at java.awt.Component.processMouseEvent(Unknown Source)
at javax.swing.JComponent.processMouseEvent(Unknown Source)
at java.awt.Component.processEvent(Unknown Source)
at java.awt.Container.processEvent(Unknown Source)
at java.awt.Component.dispatchEventImpl(Unknown Source)
at java.awt.Container.dispatchEventImpl(Unknown Source)
at java.awt.Component.dispatchEvent(Unknown Source)
at java.awt.LightweightDispatcher.retargetMouseEvent(Unknown Source)
at java.awt.LightweightDispatcher.processMouseEvent(Unknown Source)
at java.awt.LightweightDispatcher.dispatchEvent(Unknown Source)
at java.awt.Container.dispatchEventImpl(Unknown Source)
at java.awt.Window.dispatchEventImpl(Unknown Source)
at java.awt.Component.dispatchEvent(Unknown Source)
at java.awt.EventQueue.dispatchEventImpl(Unknown Source)
at java.awt.EventQueue.access$200(Unknown Source)
at java.awt.EventQueue$3.run(Unknown Source)
at java.awt.EventQueue$3.run(Unknown Source)
at java.security.AccessController.doPrivileged(Native Method)
at java.security.ProtectionDomain$1.doIntersectionPrivilege(Unknown Source)
at java.security.ProtectionDomain$1.doIntersectionPrivilege(Unknown Source)
at java.awt.EventQueue$4.run(Unknown Source)
at java.awt.EventQueue$4.run(Unknown Source)
at java.security.AccessController.doPrivileged(Native Method)
at java.security.ProtectionDomain$1.doIntersectionPrivilege(Unknown Source)
at java.awt.EventQueue.dispatchEvent(Unknown Source)
at java.awt.EventDispatchThread.pumpOneEventForFilters(Unknown Source)
at java.awt.EventDispatchThread.pumpEventsForFilter(Unknown Source)
at java.awt.EventDispatchThread.pumpEventsForHierarchy(Unknown Source)
at java.awt.EventDispatchThread.pumpEvents(Unknown Source)
at java.awt.EventDispatchThread.pumpEvents(Unknown Source)
at java.awt.EventDispatchThread.run(Unknown Source)
```

(Second Save Attempt location of file wasn't passed correctly)



\*\* couldn't figure out how to make the file name go back into my saved program. Worked on it for about 2.5 hours getting the same result. Of file == null, but no errors.