Credit Name: CSE2130 File Structures & Exception Handling

Assignment Name: FindAndReplace

Decribe the errors you've encountered while working on this assignment. What caused the error and how do you overcome the error?

Error:

Exception in thread "AWT-EventQueue-0" java.lang.NullPointerException at [very large stack trace]

Just a dumb error where I assigned the textFile in the wrong place, leading to it actually being null when the reader tried using it
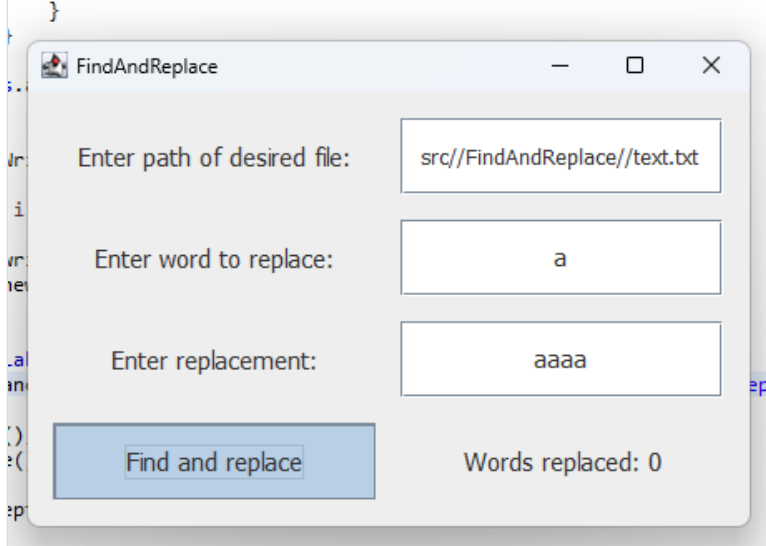
```
Exception in thread "AWT-EventQueue-0" java.lang.StringIndexOutOfBoundsException: Index 0 out of bounds for length 0
```

Forgot to prevent blank inputs from breaking everything

```
if (!target.equals("") && !replacement.equals(""))
```

This line fixed it by giving an error message if any field is blank

It is possible to create an infinite loop by replacing a word that then gets replaced again

```
}
```



```
i += replacement.length();
```

Added this line when each word is replaced that advances past the word and does not allow the program to replace it again

```
BufferedReader in = new BufferedReader(new FileReader(textFile)); //Create a BufferedReader
BufferedWriter out = new BufferedWriter(new FileWriter(textFile));
```

Having the writer up with the reader before the file was read caused the file to be emptied, meaning that nothing was ever read and the writer just recreated a blank line

```
161          BufferedReader in =
162
163          while ((line = in.r
164          {
165              for (int i = 0
166              {
167                  if (line.cl
168                  {
169                      if (cor
170                      {
171                          lir
172                          i ·
173                          lir
174                          wor
175                          i ·
176                      }
177                  }
178              }
179              lines.add(line)
180          }
181
182          BufferedWriter out
```

Very easily fixed by moving the writer down below all reader code