CS1050 Assignment 9 (50 points)

Please complete the program below and submit the java source code file (.java file) on Canvas.
Your program will be graded based on the correctness by running and testing. Please carefully run and test your program before turning it in. The code that is not compiled will receive ZERO credit.

Warning: Read the problem carefully to make sure you follow all the specifications.

File encryption is the science of writing the contents of a file in a secret code. In this assignment you will need to write a java program called First_Last_Crypto to implement a simple encrypting technique. Your program will work like a filter, reading the contents of one file, modifying the data into a code, then writing the coded contents out to a second file. The second file will be an encrypted version of the first file.
Specifically, your program you will read the first file one character at a time, and add 15 to the character code of each character before it is written to the second file.
For example:

"Do not take life too seriously. You will never get out of it alive."
—Elbert Hubbard

Will be encrypted into:

1S~/}~É/Épzt/{xut/É~~/ÇtÅx~ÑÇ{à=/h~Ñ/Ux{{/}tÖtÅ/vtÉ/~ÑÉ/~u/xÉ/p{xÖt=1/Òè£T{qtÅÉ/WÑqqpÅs

Hint:

```
// Read a byte.
byte input = inFile.readByte();
// Encrypt the byte.
input += 15;
```

You can use the provided FileEncryptionFilter.java as a driver program to test your implementation.
You need to turn in First_Last_Crypto.java