**Object Oriented Programming in Java (Extra Lab)**

**Problem:**

Biologists use a sequence of letters A, C, T, and G to model a genome. A gene is a substring

of a genome that starts after a triplet ATG and ends before a triplet TAG, TAA, or TGA.

Furthermore, the length of a gene string is a multiple of 3 and the gene does not contain any

of the triplets ATG, TAG, TAA, and TGA. Write a program that reads a text file containing a

genome in each line and write all genes in the genome line wise as follows. If no gene is

found in the input sequence, displays no gene. File names are given as command line

arguments. Here is a sample output:

Input File

TTATGTTTTAAGGATGGGGCGTTAGTT

TTATGGGGGTAAGGATGGGGCGTTAGTT

Output File

Line 1

TTT

GGGCGT

Line 2

GGGGG

GGGCGT

End

**Structure:**

1 class named Fileread implements the solution to the given problem.

**Input:**

The program expects a text file to read the genome from.

The path of the text file should be changed according to where the file will be located.

**Output:**

Although the problem asks to prepare a separate output file, the program does not implement that.

Instead the program reads each line of genome and displays the genes associated in the desired order and format.