CIS 331 In-class Exercises

Please finish the following exercises about files and exception handling in Python, learn, and use new language features whenever needed.

1. Learn how to use open() and close() without using the "with ... as ..." structure.
   Note for a "with" block, all file processing has to happen in the block.

2. Learn how to use readline() to read one line from the file instead of using the "for" loop to get lines one by one.

3. Write a file with a certain structure (records with a few fields). For example,

name	id	favorite_friut
aaa	111	apple
bbb	222	orange
ccc	333	grape

   Please note the first line in this example is the header row. The fields of the header row will be used as keys in dictionaries that store records.

   Check if the file is written and formatted correctly then finish the following -
   - Read the file and assign data to a list of dictionaries.
   - Learn how to split a string into tokens like StringTokenizer in Java.
   - Print out the contents of data from data structures.

4. Preview the exception handling feature in Python, compare it with Java, and answer following questions –
   - What is the syntax for exception handling in Python?
   - What is the built-in class structure of exception classes in Python?