CSCE 145: Lab 16
Reading and Writing Text Files

Objectives: Learn about Text Input/Output in Java.

Assume you are the owner of Tower Records, which sells music CDs and albums, and you decide to hold a sale to try to reduce your inventory of old records. Write a Java program to read from your inventory text file (an example file is here: http://www.cse.sc.edu/~carrollh/CSCE145/files/albums.txt), which contains information about albums and CDs, including their cost. If an album is between one year and five years old, change the cost to show a discount of 5%. If an album is between 5 years old and 10 years old, give a discount of 10%. If it is more than 10 years old, give a discount of 50%. The album information with the new pricing should be written into a new text file *newalbums.txt*.

Each record is represented by four lines of text: the first line is the title of the album, the next line is the artist/group name, the next is the year of release, and the next is the price of the album.

Hints: Once you read in each line as a String you can parse the year of release *Integer.parseInt(String s)* to an int and check how old it is and give a discount on the parsed price (double). Use the *substring(int index)* method of the String class to get rid of the $ sign in the front of price. Use a loop to do it for all albums.

Compress your files (your inventory text file, your output text file, and the .java files of your source code) into a single .zip file and upload it to the dropbox at https://dropbox.cse.sc.edu.