Homework #2 – ITEC 3150

Homework #1, #2, and #3 are related, so please continue working in the same project for Homework 1 and turn in the whole project. Please do not overwrite any files in Homework1 and create new .java files for Homework 2 as indicated below.

Please use the instructions in <https://www.albany.edu/faculty/jmower/geog/gog692/ImportExportJARFiles.htm> to export your project and upload the exported .zip or .jar file to the D2L folder for Homework 2.

**Part I:**

Write a program ConvertTextToBinary.java that reads in your text file from Homework 1. The program will then write the Course objects using ObjectOutputStream (writeObject) to a new binary file.

Hint: You can copy your Homework 1 solution. In the main method, delete the while loop for displaying a menu and change it to a for loop to go through the arraylist of courses and write each course to the binary file.

**Part II:**

Write the second program ConvertBinaryToText.java that reads the binary file generated by the program you wrote in Part I and convert it to a new text file. Open this new text file and compare it with your original text file for Homework 1. They should be the same.

**Part III (Extra Credit):**

Write a program CompareTextFiles.java to compare two text files if they are the same and print proper messages, such as,” Two files are exactly the same.” Or otherwise.

**Submission:**

Turn in all the Java programs and your original text file for Homework 1.