CSCI 211 – Program 1: Enneagram Personality Test
Fall 2023

Introduction:

Recall the Enneagram personality test assigned the second week of class. Each student filled out an Excel sheet answering the 36 questions. For this programming exercise you will analyze the data set created from the results by class members. Four questions are to be answered: "What is the class summary of the personality traits (letter)?", "What is the personality type for each student, including my own (number)?", "What is the class summary of each personality type (number for each personality type)?", and "What is the most common personality type in the class?".

Data Set:

Three data sets are given - do not make changes to these files. These files and more will be used to unit test your file. The first file, **RHETI_Data_three.csv**, contains my RHETI data as well as two "dummy" students' data. The second file, **RHETI_Data.csv**, contains RHETI data from the entire class. The last file, **error1.csv**, contains data with an error – note that I will check more errors than this first one but it is up to you to create your own file to test it.

Requirements:

From Blackboard, download the java files and add to an IntelliJ Maven project. Rename the **Enneagram_Starter.java** as **Enneagram.java** (you will also need to change the class and constructor names). The **EnneagramTest_Student.java** file is a 16 of the 36 unit tests that will be used to test your program. Note that ONLY unit tests will be used (this means it is possible that your code runs on command line but does not pass any tests – you only get credit for tests passed). I've also provided an **EnneagramDriver.java** file if you want to use this while developing code (you don't necessarily need to use this). The last file is the custom Exception file, **InvalidEnneagramException.java**.

Now, open the Enneagram.java file. I have given some methods – do not change these. You are also asked to write several methods – look for the TODO stubs/comments where you are to add code and complete the method.

Note that if there is a tie for the personality types, you are to include all.

Submitting your work:

On Blackboard, submit a single zip file (e.g., export) of your solution with embedded documentation. You do not need to submit the data files, only the java files, including the Exception file. Late programs must be emailed to me (kdavidso@olemiss.edu) and are subject to a late penalty of 20% per day. This programming assignment falls under the honor code of the University of Mississippi so using services such as Chegg or ChatGPT constitute academic misconduct.