

## Assignment 05 – Due on 04/23/25, 11.59pm

### ***Tasks:***

Fractals concept: Complete Problem 8.1 (page 279) of the textbook.

Color theory concept: Complete Problem 7.3 (page 251) of the textbook.

Bonus (10 points): Complete Problem 8.3 (page 280) of the textbook.

### ***Instructions for Submission:***

1. Name the program for Problem 8.1 as **DragonCurves.java**
2. Name the program for Problem 7.3 as **Gradient.java**
3. Name the program for Problem 8.3 as **Tree.java**
4. Include any other .java files, .txt files for successful compilation of the scripts
5. Before submitting, compile and run your code **in the submission folder**

Combine the files for the above tasks into a single ZIP file. An example dragon.txt file has been included as an example of input file for FractalGrammars.java program. Use your firstname\_lastname with an underscore) to name your ZIP file (e.g. jason\_smith.zip). Submit your ZIP file via eLearning by the deadline.

### ***Weights:***

Problem 8.1 - 60 points

Problem 7.3 - 40 points

Bonus – 10 points