CPSC 231
Exercises

These exercises are meant to guide you to the sorts of programming tasks that you should be practicing to help you succeed in CPSC 231. Like any skill, you will become a better programmer with practice. A small portion of your grade in CPSC 231 depends on you completing these exercises to get the practice you need. You are required to do these exercises on your own both to avoid intellectual dishonesty in the form of plagiarism, and to benefit from the practice.

Grading for these exercises will be binary, i.e., your grade will be a zero or a one. To get a one you must hand in your program and any observations that the exercise asks for, and they must be substantially correct. It should not take more than approximately an 8.5 by 11 page for your each exercise. The markers will not be doing a detailed review of your work since the main goal is for you to get practice. If you are having trouble with an exercise, you should take it as an indication that you should get help from your TA or professor.

Chapter numbers refer to the course text, Wentworth et al.

Due dates for the exercises are posted on D2L.

1. (a) Chapter 2, exercise 5 (name the program interest.py)
   (b) Chapter 3, exercise 11 (name the program star.py)
2. (a) Chapter 4, exercise 2 (name the program squares.py)
   (b) Chapter 4, exercise 8 (write the function in a file named ex2.py)
3. (a) Chapter 6, exercise 1 (put the function in a file named ex3.py)
   (b) Chapter 5, exercise 6 (name the function grade, the numerical score/mark should be a float, put it in the file ex3.py too)
4. (a) Chapter 7, exercise 9 (put the function in a file named ex4.py)
   (b) Chapter 7, exercise 14 (put this in ex4.py too)
5. (a) Chapter 8, exercise 8 (put the function *mirror* in a file named ex5.py)
   (b) Chapter 8, exercise 9 (put the function *remove_letter* in the file named ex5.py too)
6. (a) Chapter 11, exercise 10 (put the function *replace* in a file named ex6.py)
   (b) Chapter 13, exercise 2 (put the program in a file named findsnakes.py, read from a file named *test.txt*, output with print function)
7. (a) Chapter 12, exercise 2 (short answers in a text file named ex7.txt)
   (b) Chapter 18, exercise 7 (put the function *flatten* in a file named ex7.py)
8. (a) Chapter 20, exercise 1 (put the program in ex8.py, read from sys.stdin)
9. (a) Chapter 15, exercise 1 (put your solution in a file named ex9.py)
   (b) Chapter 15, exercise 2 (put this in ex9.py too)
10. (a) Chapter 16, exercise 2 (put your solution in a file named ex10.py)
    (b) Chapter 16, exercise 3 (put this in ex10.py too)