Read the following and then answer the questions below. Turn in your answers separately from your programming homework. Be sure your answers are organized and clearly written (or typed).

- Ch. 10: Section 10.1–10.3
- Ch. 16: Subsection 16.6.5–16.6.6

1. In your own words, briefly describe what “activation records” and “activation record instances” are and what they are used for. Define a simple function with at least three formal arguments and a return value, and show the corresponding activation record and an activation record instance for the function.

2. Recursion adds complexity to activation records. Briefly describe this complexity and how to deal with it.

3. Research the support for lambda expressions in Java 8 and C++11 (or C++14). Briefly describe the basic syntax in each language and give a simple example of using a lambda expression. Compare the syntax to that used in Python for creating lambda expressions (e.g., see Section 15.10).