1. What is the relationship between def statements and lambda expressions ?

Lambda expression has only single expression , there is no need to define function as def and bind to a name and objects.

2. What is the benefit of lambda?

Reduce the lines of code and higher efficiency in term of cpu

3. Compare and contrast map, filter, and reduce.

4. What are function annotations, and how are they used?

5. What are recursive functions, and how are they used?

this function call itself until desired result met

6. What are some general design guidelines for coding functions?

7. Name three or more ways that functions can communicate results to a caller.